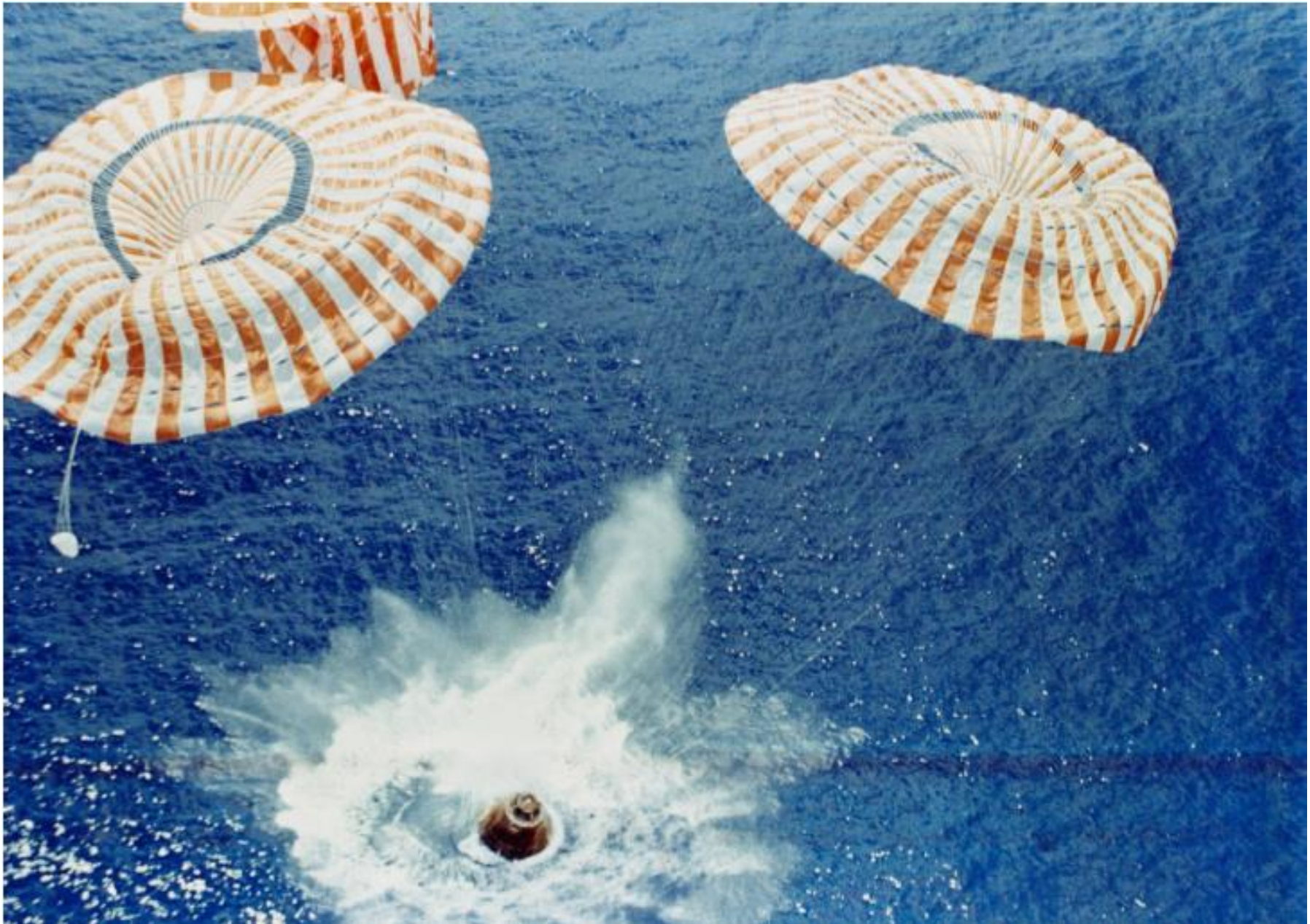


Armchair Treasure Hunt 2013 – Solution and Setter’s Notes

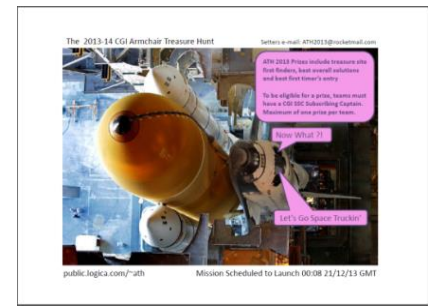


ATH 2013 Explanation: (1) what the hunters get

Teaser
Poster



Rollout
Poster



Cover:
Launch
Page



Topperware Intro

"Did your mother ever find out that happened to her old Topperware box?"
 "No, and as far as I know it's still where we buried it."
 "What were we thinking of? A time capsule for the year 2000 - it seemed so far in the future."
 When we met last summer in the village pub, the conversation turned from how much the old plane had changed since we had our first parts there, to the other things that had taken place around that time.
 Inspired by Blue Peter's activities some years before, Chris and I with the help of our friend Kate, had buried a selection of objects which reflected our interests up to then; some pre-decimal coins, Arlie astronauts, a used ticket from a concert at the Empire Pool and other bits and pieces. Chris and I both moved away when we left school, Chris to go to university and me to try my hand in a band.
 It's strange to reflect on how the things that interested us then played such an important part in our lives and careers. The groups I was in never made it big, but I still ended up touring the world, eventually, as keyboard tech for a great band (not as a roadie, as some have suggested). Chris, however, ended up with a first in Astrophysics from Cambridge and went to the States for his PhD, which led to him joining NASA and the rest of the history.
 After the end of the Shuttle programme, he took the opportunity to come back for a visit to the UK to show his wife around the places he grew up. It probably comes as no surprise that his wife is a smart cookie too. Their paths crossed in NASA when she was a specialist working on a cryptography payload I never found out much more about it than that - one of the 'hush hush' shuttle missions that are recorded by their launch date, landing, duration and not much more available for public consumption).
 I was now the proud owner of a music shop in Central London which gave me a bit of flexibility over my commitments. Chris planned to be over here for a few months, but his wife had to return home a couple of times during their stay, and it was during one of these breaks he suggested that we met up in the old pub, with a view to showing her the village when she returned. After several pints, we thought it would be fun to test her skills by putting together a treasure hunt which would lead her to the time capsule we buried back in 1976.
 In some spare time we put together this puzzle and proudly presented it to her. It would be fair to say that her response was underwhelming. "If you hand it in on your holidays and what's left of this fine summer doing your 'Boys Quiz' you have another thing coming. Give it to me at Christmas and maybe I'll look at it then..."

Six pages of Christmas jigsaw puzzle

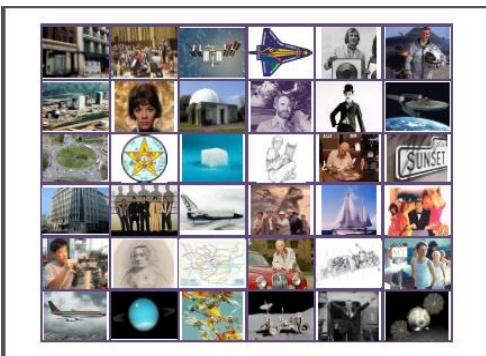
ETOAIN Merry Xmas Sleeves



25 'dates', 25 Questions and an Only Connect board

Warsaw	Chewbacca	East	Peace
Rastrelli	Ascent	Erysimum	Hellsberg
Galute	Gunderam	Napoleon	Edinburgh
Osio	Toushima	Impossibility	Inkerman

Pic Clue to solving 'dates'



ATH 2013 Explanation: (2) Hidden out of sight



Acrostic Snipurl site



Virtual Treasure Site 1



Virtual Treasure Site 2



Virtual Treasure Site 3



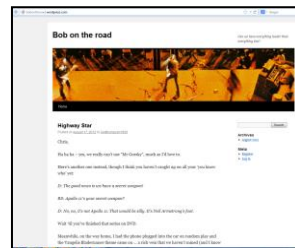
Link to ATH1992 site



3 Facebook accounts

```
LEYK FACOMDZMELYKNGG
IOWVDNEFWHRNELIAWHH
NWEKGYIVLONZYZELJZN
OZFNFWHISIXYDPWVPEEQ
WAYDVCSEDTCPWYOEHIIT
GCOHPRHBHQZMKDJFVWPL
AUXDIWEJBOPXAVFGPBJR
NWEKGYIVLONZYZELJZN
HMYVGLFWXVYNOXURRFW
WAYDVCSEDTCPWYOEHIIT
LDVTTADIWBLT CMDIMJEL
HLVPEI CNXXDBMMZVMASY
AEDNXEYAWGRXHZAOJWL
ZESYADIGARJLWKNNOTB
ZSNDQKFKZBEEFIOMGVYG
GZJHVVPGGXTNSLZIHGO
BJMKXOTRHYGRPHVVLXAG
QREXOERESATUHPTELUVN
YOMAMOIEYFKBTPEVODB
SIHKIUEDXCRTBTZINEZA
BX
```

One Time Pad Cyphertext



Bob on the Road Blog



Space Truckin' on You Tube

One Time Pad

The less than pure form of one time pad for ATH 2013

One Time Pad Plaintext
(Directions from Deeves Hall to Treasure)

One Time Pad Encryption Key
(Space Truckin Lyrics)

One Time Pad Cyphertext
(encrypted directions)



Hamming Code
Decode to definitive
Space Truckin lyrics



Don Airey's
Bobby Thompson
story

ATH 2013 Explanation: (3) Structure



Posters and Cover Page

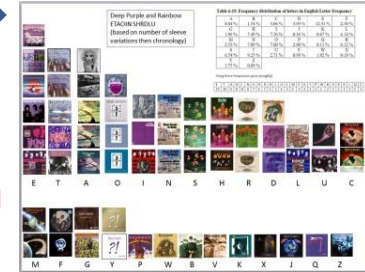


Tupperware Intro



ETAOIN Sleeves Merry Xmas

MERRY XMAS AND HAPPY NEW YEAR.
WORKING AT QUIZ, BASH THOSE RED
FISH - FOOLING THEN MISLEAD.
UTILISATIONS OF CUT THEN JOIN – THEN
VULNERABLE CODES TOTTER.



Resolved Christmas jigsaw puzzle

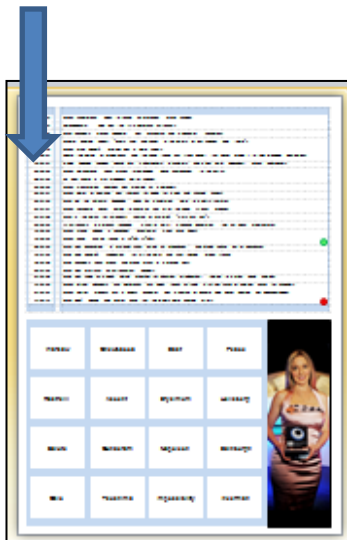
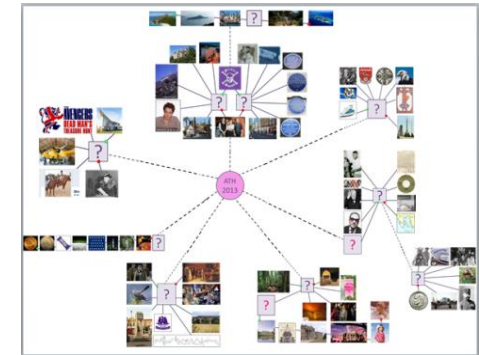


N	O	I	S	R	E
V	T	N	E	C	E
R	T	S	O	M	S
M	U	B	L	A	O
I	D	U	T	S	E
S	U	Y	L	N	O

ONLY USE STUDIO ALBUMS
MOST RECENT VERSION

Album/Word/Track	Translation	Initial
06/01/07	Space	S
06/02/07	Truckin	T
16/01/02	Almost	A
11/02/09	Responsible	R
19/02/10	The	T
01/03/01	Address	A
18/02/07	To	T
09/03/09	Fortune	F
04/01/00	In	I
09/05/06	Right	R
03/02/01	Shadows	S
05/01/05	The	T
02/01/07	River	R
02/01/04	Exposition	E
03/03/09	Has	H
13/05/08	Enough	E
10/03/08	Around	A
04/02/00	Rock	R
15/01/03	Soon	S
14/02/04	About	A
08/01/03	Lay	L
01/02/04	Happiness	H
12/02/05	And	A
07/02/02	Long	L
17/02/12	Lost	L

Another
Space Truckin'
Reference
Message is
like a cryptic
set of directions
which are vaguely
correct!



'Dates' Code
START AT FIRST
REHEARSAL HALL

25 Questions Acrostic

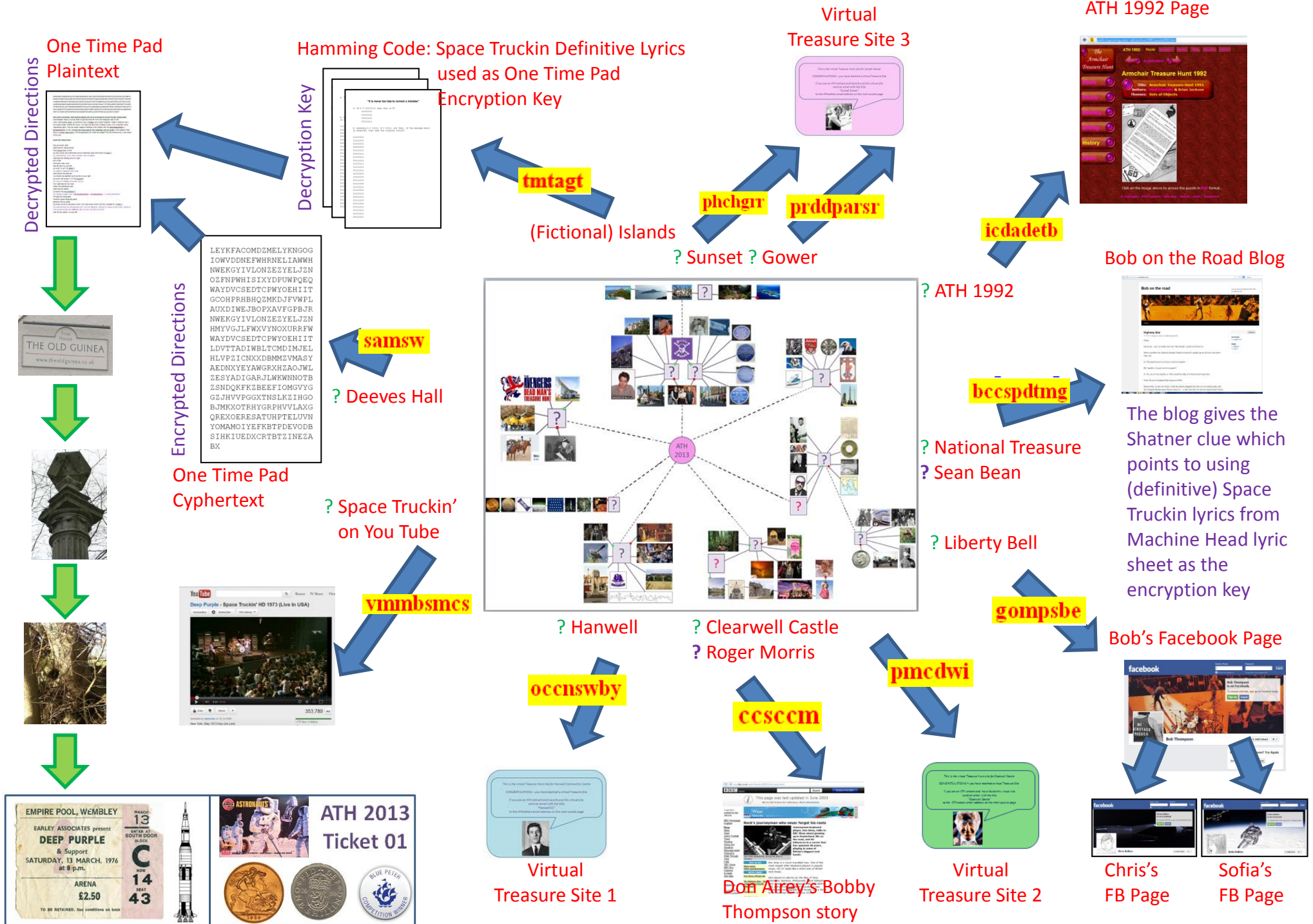
[www.\(dot\)snipurl.\(dot\)com/\(slash\)gathrocket](http://www.snipurl.com/gathrocket)



SNIPURL Site 1
With a message
to ATHers to look
for more snipurls

Only Connect – clue to “ignore whitespace” for one time pad (solving the board makes the anagram easier)
it is also related to the jigsaw puzzle – there is a lot of white space here to ignore or cut out!

ATH 2013 Explanation: (4) Jigsaw Links to Solution



Setter's Notes from **Brian** and **Phil**

INTRODUCTION

July 1969: As a seven year old my father let me stay up and watch the first moon landing live on TV. When I went into school the next morning I couldn't understand why no-one else was as excited about it as me. [Brian isn't the only child of the sixties whose dad awoke him in the middle of the night to watch Armstrong walk on the moon!](#)

Autumn 1977: My friends let me borrow a couple of Deep Purple albums. "How come it's the same band if there are so many different people in?" Such an innocent question... [Brian kindly gave me a CD of Deep Purple songs when we started planning the hunt; I am proud to say it is still unplayed.](#)

Just before the anniversary of my first year in Logica (16 September 1985 according to my diary), Geoff Beeson took Paul Coombs and myself aside and said that we should talk about an idea Pablo had had. I had worked on a pub treasure hunt with Geoff (Pablo was taking a break from organising them at the time) and, while Pablo and I knew each other from drinking in the Fitzroy on Friday nights, our paths hadn't crossed too much otherwise.

Due to a Print Room cock-up, Pablo and I spent Saturday 14 December depleting Great Portland Street office of toner and copy paper as we made as many copies of the ATH as we thought we could leave in office kitchens and mail out (yes, by post) to anyone who asked.

In the next seven years we collaborated on another four (and a bit – see 1987) ATHs. I left Logica not long after and missed a few ATHs before being drawn back into the PATHfinders team with Dave Harding, Pablo, Phil Stockton et al. [This was the team's purple patch \(sorry couldn't resist\) with 4 consecutive 'first to box' prizes and 5 best overall solutions in 7 years!](#)

I had a nagging idea, a theme about things I grew up with and a desire to be Holmes rather than Watson, as far as setting the ATH went. We celebrated a team victory in 2006 with our traditional curry in February 2007 and afterwards Pablo and I talked about ATH setting, the problems of doing it on your own and the challenge to find someone to bounce ideas off that would want to enter it themselves, with some encouragement to start to put it together to see if it stacked up. It turned out to be the last time we spoke.

In 2010 I gathered all the loose notes and scraps of paper with ideas I had collected. On the way home from our team beers after trying to make a breakthrough on that year's ATH, Phil expressed a desire, were he ever to set an ATH, to bury the box in Dave Harding's garden. A light bulb came on. "I can't offer you that but I might be able to do the next best thing...".

We registered interest with Mark Abbott, who warned us that we could be looking at nearly three years hence, and Phil had to digest a seven page missive which started thus.

THEMES

The themes of this ATH are rooted in a decade and a half from the early sixties to the mid seventies (with the two main themes extending to the present day). These are the golden age of space exploration and continuing musical soap opera that is Deep Purple.

From Gagarin's flight in 1961 to Apollo-Soyuz in 1975, space flight had a sense of adventure and captured the imagination in a way that it seems rarely capable of doing now. The race to the moon best represents this excitement, but we also have space stations, rendezvous détente, tragedies and triumphs. And give us access to some superb photographs.

At the same time as spaceflight provided one arena for cold war competition, popular music was going through its own tumult. At the same time as the first manned flights took off, the Beatles, The Rolling Stones, The Who, The Beach Boys, the Motown crowd and so on were starting to push out the ballad singers and old rock and rollers (Elvis was making rubbish movies, Bill Haley disappeared, Jazz and Folk retreated into smaller clubs to emerge into daylight on rare occasions). By the time of the final moon landing Led Zeppelin were probably the biggest band in the world, hair was longer, volume was louder and afghan coats, flared jeans and patchouli were fashionable.

Deep Purple followed the Apollo era almost exactly; founded in 1968 and splitting in 1976, the band transformed from Swinging London pop to hard rock and even to the odd soul-funk tune that owed a lot to Stevie Wonder, with four line-ups (Mark 1 to Mark IV) gaining and losing members through sackings (and back-stabbings) and auditions, writing and performing a Concerto at the Royal Albert Hall with the RPO conducted by one of Britain's leading contemporary composers (Sir Malcolm Arnold) and later repeated at the Hollywood Bowl (before the score was lost and recreated in time for the 30th anniversary)

[I was happy with the space theme but want to apologise now to anyone who thought you had to listen to Deep Purple music to solve the hunt!](#) *[It was one of the enjoyably ironic decisions in setting to only include one music clip on You Tube and have an ATH 50% thematically based on a Rock Group to be otherwise silent]*

If you like the music, it's great; if you don't, there's still the story and, of course, there are some useful links to West London and Hertfordshire, as well as some lyrical interweaving with the space age and friendship with a sadly tragic shuttle flight.

THE HUNT

To my mind, the bare bones of each hunt are to decide on each of the following:

- a place to bury the treasure box, a place to start the hunt and directions between the two (a.k.a. the Trail)
- how to tell the hunters where to start (aka the Quiz)

Frankly, a rough idea of where the trail will start would initially suffice, but the quiz will need more precise directions or at least the method by which the directions are to be encoded.

There are ‘traditions’, some of which I recognise and some of which have been accumulated over time (and therefore can be potentially disregarded): we must have a logical question, as a nod to our sponsors, a Red Herring of some sort and a ‘Merry Christmas’. Other than that I’m not sure that there are any others we need to include. (I find Sean Bean to be quite dull as a source of questions, however...).

The rest of it is just making it fun for us to set and them to uncover.

[Another six pages of ideas followed, so that Phil had an idea of how far on I was with the idea]

DEVELOPMENT, OBJECTIVES AND DESIGN

BACKSTORY

After a couple of the recent hunts that hinted at a story but didn't really deliver; I was keen that our hunt would have a strong narrative thread. Fortunately, Brian agreed and was up for the extra work this would inevitably entail.

While avoiding a murder mystery cliché, there are three characters: two old school friends, Bob and Chris, and Chris’s wife Sofia. Activities are timed to significant events i.e. All Facebook entries were made on Birthdays, Wedding Anniversary and Apollo Moonshot Launch Dates (A7 – A17). We used the Facebook Timeline to map the backstory (created in real time) and interwoven with real world events which we could reference.

To flesh out the three characters, we created Facebook accounts for them and built a real time dialogue based around a year of their time. The three accounts interweave on key dates and their birthdays all relate to 1959 as would match their approximate ages.

One snippet links to the ‘Bob on the road’ blog which was spun off from some early blog work and was timed to coincide with the 40th anniversary of the Made In Japan concerts. ‘Chris’ was named after an astronaut at the start of ‘You Only Live Twice’ and ‘Sellers’ for Piers Sellers, British born astronaut whose biography was useful for building Chris’s backstory ([Brian and I both feel slightly envious of an Englishman of our generation who made it as an astronaut](#)); ‘Sofia’ was named courtesy of Phil after Sophia Loren (as per rumours relating to her and Peter Sellers) and I chose to spell it in Bulgarian capital style out of perversity and several enjoyable visits to that city and NASA SOFIA; ‘Bob’ had no name for a while, until the “Plug it back in Bobby” story from Don Airey made it too good an opportunity to miss and hence that went in too (There is also a minor North-East connection to an old working man’s clubs comedian of the same name aka ‘the little waster’, who I can’t honestly recommend anyone looking up).

NOTES TO FUTURE SETTERS: For such a minor part of the hunt I’m not sure the effort and hassle related to the Facebook accounts was really worth it. There was an implicit assumption that teams would have access to Facebook, which should have been made explicit in the starting notes. Also, the conversational nature of the blog and Facebook entries, while mostly planned and fun to do, was challenging to construct a marking scheme for and expected that it may be necessary to award bonus marks when scoring to allow for this. [My second apology, to Brian this time, it was hard work but it makes for a coherent story.](#)

CONVERGENT PATHS

Convergent Paths to the treasure site. There is one main route but several confirmatory side channels. There are no dead-ends but there are some puzzle areas which you could spend time on without moving yourself much further forward (the rabbit holes).

VIRTUAL TREASURE SITES

The structure of the hunt lends itself to three virtual sites in addition to one actual burial site and frees the hunt up from some geographical restrictions to a small extent (i.e. small prizes for first finders of each virtual site). [This is also intended as a nod to the virtual teams from outside the UK ...](#) and outside South East England.

ATH TRADITIONS

Merry Xmas message, Red Herrings, Logica references (not helped by being taken over by CGI after the bulk of this hunt was set in stone) and Sean Bean, despite my initial reservations. Also incorporating some nods to previous hunts (coins, ETAOIN substitution, Gutenberg, etc) while trying to use them slightly differently.

POSTERS

Posters as part of the puzzle:

Poster 1 'The Teaser (Test)' covers the main themes. Also it was a test of our capability to edit the site and upload pages before anything too important went up.

- Font is 'Chiller' as used on Deep Purple's latest CD 'Now What?!'
- Portrait is Tommy Bolin – Teaser album cover with text removed (it's a teaser poster)
- Apollo Pic is a launch test of the escape rocket (testing out that we can launch safely)
- Poster Launch Date (Nov 14) is anniversary of Apollo 12 Launch

Poster 2 'The Launch Date (Rollout)' - Hiding a key part of the answer in plain sight was amusing.

- Space Shuttle pic repeats spaceflight theme (Shuttle was designed as a 'Space Truck')
- Caption 1 "Now What?!" - Deep Purple's latest CD
- Caption 2 "Let's Go Space Truckin'" – Lyric and first of many Space Truckin references
- Poster Launch Date (Dec 7) is anniversary of Apollo 17 Launch
- ATH Launch Date (Dec 21) is anniversary of Apollo 8 Launch. [The time is a reference to Apollo 8!](#)

The order of documents in the pack is the suggested order in which to tackle them (though you could do the jigsaw in parallel)

COVER PAGE

After Test and Rollout... Launch. This is the 28th ATH and this picture is NASA's 28th Manned Rocket Launch (i.e. excluding X-15 flights), Conrad's Skylab 1 crew. "Yeah, Yeah, Yeah" is another Space Truckin reference. There is no significance to the ATH launching on the winter solstice, nor is the date 21/12 a reference to the Canadian band Rush (they would probably write the date 12/21 anyway).

INTRODUCTION PAGE

Sets the scene, introduces the characters and the backstory, and drops a couple of minor pointers regarding the quiz and the location.

ETAOIN SHRDLU

My first (the first) ATH had a simple frequency substitution code. This was slightly more complex or rather, to make it so, the more frequent letters could be represented by more than one variation on their symbol. One album represents one letter so you could view each sleeve variation as a different font. [I find the codes in most ATHs frustrating and sometimes repetitive: we were both keen to innovate this year.](#)

ETAOIN is an introduction to some Deep Purple subject matter but is otherwise a rabbit hole. It is the Merry Christmas message plus some cryptic text which uses the available letters in the smallest possible message to map as closely as possible onto the ETAOIN frequencies, once they are identified.

6x6 GRID OF PICTURES

The Acrostic "ONLY USE...." is intended to be a straightforward clue (if needed) for the pseudo-dates that follow and a reward for completing/cracking the 6x6. This also introduces more Space and Deep Purple themes, nods back to old hunts and the odd Logica connection. Points were split between identifying the subject and identifying its relevance/significance to the hunt. Note, the studio albums (only) have already been used in ETAOIN but all versions, not just most recent.

PSEUDO-DATES (GUTENBERG VARIATION / OTTENDORF CIPHER)

As a variation on Page/Line/Word in a book, this was Album/Word/Track. While these look like dates between 2000-2012, there are some truncated number ranges. The hope was that from the ETAOIN piece the 19 DP studio albums would be recognised as significant (i.e. why no live albums) and that while these look like dates, the first 'dd' digits never exceed 19 and every number between 1-19 is represented at least once. The 'mm' word digits range between 01-05, so another suspiciously shortened range. The 'yy' track digits have the added confusion of the '00' values but I assumed that solvers would make the same leap that I did when devising this variation, i.e. to use the album title as a track too. As a result they range 00-12 (but tellingly none before 00).

The disclosed message is another which has a Space Truckin reference at the start and sounds (correctly) like vague directions to the box. The message hidden in the acrostic is more specific, to start at the first rehearsal hall. This is the first pointer to Deeves Hall as the vicinity of the burial site. [At least one team realised this possibility from the posters!](#) Delightfully, Wikipedia has for many years inaccurately listed Hertford as where Deep Purple was formed, and so more research is needed for a more accurate answer. This may also be picked up as a hint that the other rehearsal halls may have some significance.

ONLY CONNECT

This seems to be popular with ATHers, so it's another fairly easy to solve rabbit hole. The answers form an anagram of IGNORE WHITESPACE which Phil thought would be helpful much later when you get to the one time pad and the final directions. The format provides a few more puzzles and a variation on just doing questions.

Phil accused me [correctly](#) of using this as an excuse for inserting a gratuitous eye candy picture of Victoria Coren (now Coren-Mitchell). I would assert that this was an essential clue to the grid for those who have never seen Only Connect and was a shortcut to explaining what to do with the grid. Honest.

25 QUESTIONS

There is no significance to there being 25 Qs other than the aesthetic symmetry with the pseudo-dates. The questions are intended to fall fairly easily to surfing, balanced against some mildly cryptic wording. It is nearly the last chance to score points just by explicitly answering questions.

However, just to be awkward, a few of the answers are punctuation marks rather than letters (i.e. dot, spot and slash). I haven't seen anyone do this before but I saw no reason not to. The question acrostic is the key into the rest of the puzzle, via snipurl. The green and red dots give the start and stop points for the snipurl code (to be used later on) and the snipurl site you link to is both encouragement that you are on the right track and a precursor of the three virtual sites to follow.

Note that the three sections on this page are separated by whitespace and the fonts are different sizes as a clue that these are three separate puzzles, not connected.

JIGSAW

The annual jigsaw puzzle used to be as much a part of my parent's Christmas as the ATH is of mine. The Hub and Themed Spoke layout lends itself to grouping the pictures into themes once the jigsaw has been solved. Sub-branches hanging off keep the layout challenging. The straight and dotted lines at the side of the page acted partly as registration marks and partly as a hint that you would need some extra connecting lines for everything to fit together. [I did spend a couple of frustrating hours at Brian's house 'proving' that it could be assembled by someone who got the idea.](#) As a result of this trial the purple overlays and Green-Red dots were added to pictures which were intended to clarify which letter to use in the snipurl where they were thought too ambiguous and which way to read the snipurl code.

Four (or three and two halves) of the themes lead to real or virtual treasure sites, with mythical islands spun off from Pirate Sound to Treasure Island. One theme went back to my last ATH as setter and anyone who did their research on the ATH site might have got their reward at this point.

NATIONAL TREASURE was a sub-topic: I liked the treasure hunt theme of the film and looking up 'National Treasures' on Wikipedia threw up a fascinating selection of otherwise unconnected items and figures. The NT theme arranges four people down one side and four objects down the other. Since Sean Bean was in the first NT film it gave an opportunity to put him in and also to spawn a sub-branch relating to it, i.e. Liberty Bell, which is a key NT plot point that also connected back to the main theme in a couple of ways. LIBERTY BELL provided some obvious references, such as Sousa, Python, Grissom and the B-17, but also more serendipity while researching, not least the Eisenhower dollar.

For each of the sites it gave an opportunity to put some themes in:

SUNSET and GOWER gave a lot of Sunset Boulevard related stuff near the studios in Hollywood and Gower Street, using London partly to distract and partly for eclectic convenience. The ISLANDS branch was partly triggered by film themes for You Only Live Twice and Our Man Flint (not least when OMF island coordinates would put you in mid-Sahara). [My teenagers actually enjoyed the Flint Films!](#)

CLEARWELL has a lot of Dr Who links and created a sub-branch through an architect that I couldn't find any picture of (so had to use one of his son of the same name), who linked to a bit of Logica's old Cobham offices to Thunderbirds and (due to an intended snipurl being taken) another suggestion by Phil that the final picture I added was more eye candy.

HANWELL was as close as I could get to fulfilling Phil's desire to bury the treasure in Dave Harding's garden ([as at least one of the Hanwell connections is visible from his house](#)). The Speed King references came from an early picture test for Phil to try out and the bat caves at Northcliffe Viaduct were intended as a possible treasure site.

DEEVES HALL was the intended burial site and, unintendedly, roughly equidistant from Phil's and my house. Unlike the other three rehearsal sites, this one leads not to a virtual site but to the encrypted directions for the physical site. This proved to be a remarkably fertile area for links. During the 2011 Hunt I frequently passed the 'other' Shenley Wood, near St. Albans on the way to meet Phil to explore routes between the Old Guinea and the burial site. There was a certain irony knowing that this year's site wasn't far away.

Through a combination of research and local knowledge, I had been to the Mosquito museum years earlier (and was permitted to get into the Yellow prototype), Strangeways stables were discovered on an OS map while looking for possible burial sites ahead of visiting – Coombe Wood nearby was also considered for obvious reasons. The new Arsenal training ground mirrored the 1992 ATH Arsenal reference ([and would antagonise Dave Harding](#)). 'Avengerland' references were found quite early on but it was a surprise to discover that they had their own treasure hunt which had been running nearly as long as ours.

NOTE: Deeves Hall, Hanwell Community Centre, Clearwell Castle and Sunset Gower Studios (Pirate Sound) are the rehearsal sites for each of the first four Deep Purple line ups, i.e. where each line up formed and wrote their first songs together.

SPACE TRUCKIN has a typical lyric by Ian Gillan (and if you don't know who he is by now...), filled with space related wordplay which combines out ATH's themes. William Shatner issued a version (featuring Ian Paice) during ATH setting which seemed like a good omen, and with the Space Shuttle occasionally referred to as a 'Space Truck', it gave room to hide a key answer on Poster 2 and give room for teams to overanalyse the posters, not that I would suggest that we do that every year. Space Truckin references are buried throughout the puzzle like stray coins from a treasure chest.

FACEBOOK: All entries were written on Apollo 1-17 launch dates, Bob, Chris and Sofia's Birthdays and Sofia and Chris's Wedding Anniversary. There is a lot of backstory conversation in here as well as a clue to decryption (in Sofia's pages) and recording topical events, not least the loss of key players in the story during setting.

BOB ON THE ROAD BLOG. This is not as innocent as it seems. There is backstory context, linking in to the Facebook dialogues, so why jump out to a blog? It enabled a separate self-contained section which tied into the 40th anniversary of the concerts recorded for the Made In Japan album (see 1992 ATH for a link – it was a visual joke on the iron). Using the track titles in reverse order meant that Space Truckin appeared as the first visible entry. The Shatner version of Space Truckin is referenced here and pointers to the definitive version of the lyrics from the poster insert in the original versions of Machine Head, where Space Truckin first appeared. There are also Doctor Who links to Apollo 11 and the Clearwell Dr Who theme, and both Bob's Facebook page and the Bob On The Road blog use cover pictures from Made In Japan / Live In Japan sleeves in their headers.

CODES. These are a necessary evil in every ATH. Necessary because they are challenging so slow the teams down; evil because they are challenging and waste a lot of time. Similar ciphers like Caesar, Playfair and Vigenère appear repeatedly giving experienced teams an advantage (as well as boring me). We were keen to throw in a couple of twists this year so as well as using Deep Purple Albums for a Caesar cipher and for a variant on the LWL code (aka book code / Ottendorf Cipher), what better than to use the perfect cipher and a code that isn't a code at all!

ONE-TIME PAD. A properly implemented OTP based cipher offers perfect secrecy: $H(M) = H(M|C)$ in the language of cryptography. Whilst the idea of using an undecipherable code to encrypt the directions to the treasure appealed; it would probably have got Brian and I lynched. Hence, a variation on the original Vernam cipher seemed more practical. What better to use as the 'punch tape' in this hunt than the words of a Deep Purple song – hence the frequent references to Space Truckin'?

HAMMING CODE. The difficulty with using a Vernam cipher is that it only works if Alice and Bob have access to exactly the same 'stream' for encryption and decryption. There are many versions of the lyrics of Space Truckin' on the Internet but they aren't all the same and using the wrong one will not work so what to do (besides the references to the definitive lyrics)? Obviously, we need to hide the correct version somewhere in the ATH but we'd need to obfuscate it somehow. This is where the Hamming Code came in. Something encoded using a Hamming Code will look as though it has been encrypted, especially if it is presented in binary, even though it hasn't.

Now I studied Coding Theory at University so all this is 'obvious' to me but Brian and I worried that it might be too obscure so we thought about how to present this part of the puzzle. Hence the final form as a slightly obtuse exam question. The title of this "It's never to late to correct a mistake", which was my sole musical contribution to the hunt being the first line of 'Walk in a Straight Line' by TV Smith's Explorers - a B side so obscure it isn't even listed in the Discography on his own website (so lots of bonus points for anyone who spotted this!). This was also obviously a hint to an error correction code and the use of G and H should point anyone with access to google (other search engines are available) towards the Hamming Code.

To make sure it couldn't be missed we decided to have Sofia explain what she'd had to do to crack the codes (in one of her Facebook entries).

One thing I hadn't realised when setting the puzzle is that Computer Science courses tend to present the Hamming Code in a more simplistic way to Mathematics courses so my use of Standard Form for the parity check matrix caused at least one team to think the decode didn't work.

Of course, to any team that finds the correct version of the lyrics on the Internet this is a waste of time – but isn't that part of the fun of the ATH?



SOLUTIONS AND ANSWERS

POSTERS

Poster 1: Teaser /Test main themes. Chiller Font, Tommy Bolin/Teaser, Apollo launch test of the escape rocket and Poster Launch Date is anniversary of Apollo 12 Launch

Poster 2: Launch Date/Rollout. Space Shuttle – spaceflight/‘Space Truck’ theme, Deep Purple References “Now What?!”, “Let’s Go Space Truckin’”, Poster Launch Date is anniversary of Apollo 17 Launch. ATH Launch Date (Dec 21) is anniversary of Apollo 8 Launch. The time 00:08 is a clue to Apollo 8. Rocketmail email tied into the theme.

COVER PAGE

Launch: This is the 28th ATH and this picture is NASA’s 28th Manned Rocket Launch (i.e. excluding X-15 flights), Conrad’s Skylab 1 crew.

“Yeah, Yeah, Yeah” is another Space Truckin reference. 3 man crew so 3 yeahs.

TUPPERWARE PAGE

Setting the context for ATH2013– a couple of colloquialisms caused some speculation as to intent.

A couple of queries on the preamble text

1. *The heading is "Did your mother ever find out that happened to her old Tupperware box?" – should that be WHAT?*

This should probably either have been 'what' or 'that that [had]' as in did she “find out what had happened” or “find out that that had happened”.

2. *Towards the end “doing your ‘Boys Quiz’ you have another thing coming” – should that be THINK?*

This looks ok to me, as in 'you've got another thing coming' which when I was a kid usually meant a refusal or a telling off.

There are only two hidden references in the text:

Kate - The stream beside burial site is Catherine Bourne, nicknamed Kate by us while researching the hiding place.

Old Place/Old Pub = The Old Guinea. The artefacts mentioned in the text are referenced on the finders’ tickets.

ETAOIN SLEEVES



MERRY XMAS AND HAPPY
NEW YEAR. WORKING AT
QUIZ, BASH THOSE RED FISH -
FOOLING THEN MISLEAD.
UTILISATIONS OF CUT THEN
JOIN – THEN VULNERABLE
CODES TOTTER.

Traditional Merry Christmas message plus some text which uses the available letters in the smallest possible message to map as closely as possible onto the frequencies.

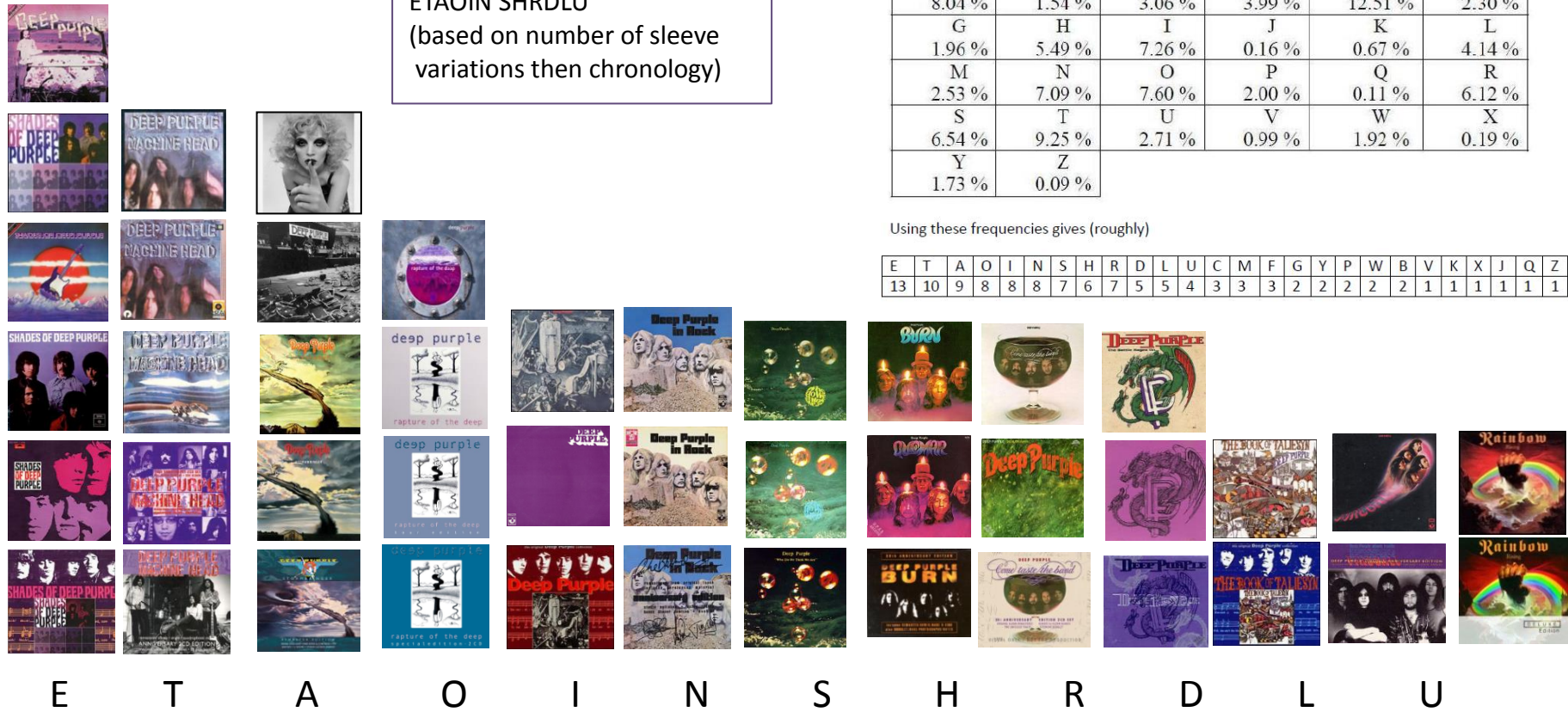
Deep Purple and Rainbow
 ETAOIN SHRDLU
 (based on number of sleeve variations then chronology)

Table 6-19. Frequency distribution of letters in English Letter Frequency

A	B	C	D	E	F
8.04 %	1.54 %	3.06 %	3.99 %	12.51 %	2.30 %
G	H	I	J	K	L
1.96 %	5.49 %	7.26 %	0.16 %	0.67 %	4.14 %
M	N	O	P	Q	R
2.53 %	7.09 %	7.60 %	2.00 %	0.11 %	6.12 %
S	T	U	V	W	X
6.54 %	9.25 %	2.71 %	0.99 %	1.92 %	0.19 %
Y	Z				
1.73 %	0.09 %				

Using these frequencies gives (roughly)

E	T	A	O	I	N	S	H	R	D	L	U	C	M	F	G	Y	P	W	B	V	K	X	J	Q	Z
13	10	9	8	8	8	7	6	7	5	5	4	3	3	3	2	2	2	2	2	1	1	1	1	1	1



Standard ETAOIN word frequency substitution code made slightly more challenging by using multiple sleeve variations - can be seen as a different font for each letter.

SIX BY SIX PICTURE GRID – “only use studio albums most recent version”

36	o	Orion	Proposed successor to Space Shuttle
35	n	Richard Nixon	Nixon's signature went to moon on A11, A17 lander plaques, Nixon approved the Shuttle (ref 'Space Truck')
34	l	Lunar Rover	The only car not driven on earth
33	y	You Only Live Twice	Fictional Astronauts - Chris is named after the Jupiter 16 Astronaut at the start (also see his Facebook page)
32	u	Uranus	The funniest of the planets, according to some.
31	s	Starship	Boeing 720 used by Deep Purple in 9174 (and by others), which ended its days in Luton Airport
30	e	Billy Elliot	Hanwell connection - this scene in Billy Elliot was filmed at Hanwell Community Centre
29	s	Spacelab	European Space Agency shuttle payload - flew over 30 missions
28	t	John Thaw (as Insp. Endeavour Morse)	Space Shuttle Endeavour connection (and Steve Morse - current DP guitarist)
27	u	Underground (Tube Map)	Also musical underground/club & Underground frequently in ATH (this version http://london-tubemap.com)
26	d	Dowager Duchess of Dunraven	Clearwell Castle Connection (I think Pablo would have liked the alliteration)
25	i	Grant Imahara	Mythbuster on Discovery Channel (Space Shuttle Discovery link)
24	o	Our Man Flint	OMF Theme in ATH. Theme song written by Jerry Goldsmith, Covered by the Artwoods (Jon Lord)
23	a	RV Atlantis	Woods Hole Research Vessel that SS Atlantis was named after (also a previous ATH answer)
22	l	The Lost World	by Arthur Conan Doyle featuring Professor Challenger (Space Shuttle Challenger connection)
21	b	Buran	Russian Space Shuttle
20	u	The Usual Suspects	Great film, also a Joe Lynn Turner album (ex DP/Rainbow singer)
19	m	MI5 former HQ building on Gower Street	Sunset Gower connection (and MI5 - Evans/Paice pre-Purple group) – very difficult to find a photo of this bldg
18	s	Sunset Boulevard (poster)	Sunset Gower connection
17	m	Jim Marshall	Hanwell connection, a previous ATH answer and another sad loss during setting the ATH
16	o	Orpheus (with Apollo's Harp)	Deeves Hall & Apollo connection - one of the rejected band names considered at Deeves Hall
15	s	Sugarlump	Deeves Hall connection - one of the rejected band names considered at Deeves Hall
14	t	Tetragrammaton	Theonym (YHWH) and early Deep Purple US label founded by Bill Cosby
13	r	Roundabout	Deeves Hall connection - band name considered at Deeves Hall, briefly used before settling on Deep Purple
12	e	USS Enterprise	Space Shuttle / Star Trek / another Jerry Goldsmith theme tune
11	c	Charlie Chaplin	Hanwell connection - educated at HCC
10	e	Tony Edwards	Deep Purple Manager
9	n	Cambridge Univ. Northumberland Telescope	Chris Sellers would have used this telescope as a member of the University Astronomical Society
8	t	Linda Thorson (as Tara King)	Avengers / Ridge / Deeves Hall connection - Deeves Hall area features in many episodes
7	v	Vandenberg AFB	Proposed shuttle launch site (built but never used for launches). Enterprise shuttle visible on launch pad.
6	e	Joe Engle	X15, Shuttle (and nearly Apollo 17) astronaut
5	r	Tim Rice	Lyricist Jesus Christ Superstar (award disc shown is for JCSS) - Ian Gillan connection – played JC on this album
4	s	STS-107 mission badge	Last Columbia Mission (DP connection to crew and Bananas track 'Contact Lost')
3	i	ISS (International Space Station)	ISS - couldn't have been built without the Shuttle. Poster 2 Atlantis last SS mission was to ISS
2	o	Orchestra	Orchestra photo from the 'Concerto for Group and Orchestra' studio recording (Jon Lord's last recording)
1	n	25 Newman Street (with 23NS on too)	DP Management used to be at 25NS at the same time Logica was at 23NS (to right of pic)

PSEUDO DATES

As described in Setter's Notes, a variation on an Ottendorf Cypher. An additional Space Truckin reference (to make it a bit easier) and a pointer to Deeves Hall as the treasure site area.

Album/Word/Track	Translation	Initial	Studio Album	Word/Track
06/01/07	Space	S	06 Machine Head	07 Space Truckin
06/02/07	Truckin	T	06 Machine Head	07 Space Truckin
16/01/02	Almost	A	16 Abandon	02 Almost Human
11/02/09	Responsible	R	11 Perfect Strangers	09 Not Responsible
19/02/10	The	T	19 Now What	10 All The Time In The World
01/03/01	Address	A	01 Shades of Deep Purple	01 And The Address
18/02/07	To	T	18 Rapture Of The Deep	07 Back To Back
09/03/09	Fortune	F	09 Stormbringer	09 Soldier of Fortune
04/01/00	In	I	04 In Rock	00 In Rock
09/05/06	Right	R	09 Stormbringer	06 You Can't Do It Right
03/02/01	Shadows	S	03 Deep Purple	01 Chasing Shadows
05/01/05	The	T	05 Fireball	05 The Mule
02/01/07	River	R	02 The Book of Taliesyn	07 River Deep Mountain High
02/01/04	Exposition	E	02 The Book of Taliesyn	04 Exposition We Can Work it Out
03/03/09	Has	H	03 Deep Purple	09 The Bird Has Flown
13/05/08	Enough	E	13 Slaves And Masters	08 Too Much Is Not Enough
10/03/08	Around	A	10 Come Taste The Band	08 This Time Around
04/02/00	Rock	R	04 In Rock	00 In Rock
15/01/03	Soon	S	15 Purpendicular	03 Soon Forgotton
14/02/04	About	A	14 The Battle Rages On	04 Talk About Love
08/01/03	Lay	L	08 Burn	03 Lay Down Stay Down
01/02/04	Happiness	H	01 Shades of Deep Purple	04 Prelude: Happiness I'm So Glad
12/02/05	And	A	12 The House Of Blue Light	05 Black And White
07/02/02	Long	L	07 Who Do We Think We Are	02 Mary Long
17/02/12	Lost	L	17 Bananas	12 Contact Lost

25 QUESTIONS

W	<p>Which supergroup helps to rebuild an Armenian music school?</p> <p>Who Cares - Ian Gillan and Tony Iommi ('and Friends') recorded a single in 2011 and released an album of rare tracks in 2012 to continue to help to finance the rebuilding of a music school in Armenia they had visited together on various occasions in past years, following their involvement in 'Rock Aid Armenia' in 1989.</p>
W	<p>Chronologically, who was the fifth American astronaut?</p> <p>On 17 July 1962, Major Bob White flew the X-15 (Flight 62) to an altitude of 314,750 feet (59 miles, 96 km). This qualified him for an Astronaut Badge, becoming the first "Winged Astronaut", one of few who have flown into space without a conventional spacecraft. This was prior to Wally Schirra's Sigma 7 Mercury flight on 3 October 1962</p>
W	<p>What connects Steven Spielberg, Rick Wakeman and a Helicopter squadron?</p> <p>Warhorse (a film, HMH-465 USMC Squadron and a band set up by Nick Simper, ex of Deep Purple. Rick Wakeman nicked all the other members of Warhorse to form his own band)</p>
dot	<p>Where, ignoring colour, "every saint and sinner in the history of our species lived there"?</p> <p>The 'Pale Blue Dot' photographed by Voyager 1 at the instigation of Carl Sagan. To continue his quote "...on a mote of dust suspended in a sunbeam." http://en.wikipedia.org/wiki/Pale_blue_dot</p>
S	<p>Which prize winner's mother was a white knight?</p> <p>SpaceShipOne is a suborbital air-launched spaceplane that completed the first manned private spaceflight in 2004 and won the US\$10 million Ansari X Prize. White Knight is the mothership which launched SS1</p>
N	<p>Name the Herald of Galactus and the Long Island bus from Hewlett that never made it to their intended destination?</p> <p>Nova and N1: Nova was a series of proposed rocket designs, originally as NASA's first large launchers for missions similar to the production-level Saturn V, and later as larger follow-ons to the Saturn V. NASA had designed Nova for the "direct ascent" Moon mission profile, in which a single large spacecraft would be placed in earth orbit and was superseded by the Saturn V.</p> <p>The N1 was a heavy lift rocket intended to deliver payloads beyond low Earth orbit, acting as the Soviet counterpart to the NASA Saturn V rocket. The project was badly derailed by the death of its chief designer Sergei Korolev in 1966. After four failed launch attempts, the program was suspended in 1974 and cancelled in 1976. Neither of these designs actually made it to the Moon.</p> <p>Nova was also a Marvel Comics character called Frankie Raye who as Nova became a Herald of Galactus (etc, etc. See Wikipedia if you really want to know more about this tosh) and the N1 bus on Long Island runs from Hewlett Broadway to Elmont Turnpike and Jamaica Terminal (the latter in rush hours only)</p>
I	<p>A blue plaqued London house with 2 composers, 4 sculptors and a Sex Pistol neighbour. Which composer?</p> <p>John Ireland. 14 Gunter Grove SW10 has a blue plaque for composer John Ireland http://en.wikipedia.org/wiki/John_Ireland_(composer) housed sculptors Glassby, Jowett, Trent and Vyse in the early 1900s http://sculpture.gla.ac.uk/view/place.php?id=ann_1283434452 John Lydon lived down the road at no 45 http://butchcavalier.wordpress.com/2009/04/20/john-lydons-residence-1978-45-gunter-grove-kensington/ and Jon Lord lived there in 1967, (and Chris Curtis for a while, I think) where the idea that became Deep Purple first arose when he first met Ritchie Blackmore http://www.deep-purple.net/tree/artwoods/artwoods.html</p>
P	<p>Which Vietnamese soup makes threateningly close approaches to the Earth?</p> <p>PHO: Potentially hazardous objects (PHOs) are currently defined based on parameters that measure the object's potential to make threatening close approaches to the Earth. Phở is a Vietnamese noodle soup, usually served with beef or chicken.</p>
U	<p>By what name is Star Freedom better known?</p> <p>Lt. Nyota Uhura of Star Trek: Star Freedom translates her name from Swahili - Nyota=Star, Uhura=Freedom</p>

R	<p>Which stop-motion comedy was created by a werewolf? Robot Chicken - Seth Green is one of the creators and producers of the stop motion comedy series Robot Chicken, in which he also voices several characters. He is also known for his role as Daniel "Oz" Osbourne in Buffy the Vampire Slayer (a.k.a. Oz the werewolf)</p>
L	<p>Which editor of Neptune was famous for going for a walk and shaking hands? Alexey Arkhipovich Leonov is a retired Soviet/Russian cosmonaut and Air Force Major General who, on 18 March 1965, became the first human to conduct an extra-vehicular activity (EVA) also known as a space walk. He commanded the Soviet half of the 1975 Apollo-Soyuz mission -- Soyuz 19 -- the first joint space mission between the Soviet Union and the United States, shaking hands with US Commander Tom Stafford on 17 July 1975 (NASA had calculated that the historic handshake would have taken place over the British seaside resort of Bognor Regis, but a delay resulted in its occurrence being over the town of Metz in France instead). Leonov also edited the cosmonaut newsletter Neptune.</p>
dot	<p>What did the antichrist doggedly place on a calibration plate to a blurry fanfare? Spot (or Dot) painting on Beagle 2 calibration target plate by Damien Hirst. Logica's software controlled the Beagle 2 probe after separation from the Mars Express orbiter. http://www.beagle2.com/resources/target-painting.pdf</p>
C	<p>Which keyboard player dared to name his son after the Apollo 11 lunar module? Prof. Brian Cox named his first son George Eagle Cox (after A11 LEM) and played keyboards for Dare (and D:ream - the questions can only get better)</p>
O	<p>What is the Dutch (or Estonian?) source of Aristotle's "stars with hair"? The Oort cloud or the Öpik–Oort cloud, is a hypothesized spherical cloud of comets which may lie roughly 50,000 AU, or nearly a light-year, from the Sun. In 1932, Estonian astronomer Ernst Öpik postulated that long-period comets originated in an orbiting cloud at the outermost edge of the Solar System. In 1950, the idea was independently revived by Dutch astronomer Jan Hendrik Oort as a means to resolve a paradox over the course of the Solar System's existence and the instability of the orbits of comets</p>
M	<p>17 astronauts in 3 groups (including 6 shuttle pilots), a second generation twin, but which programme? MOL (Manned Orbiting/Orbital Laboratory), a Gemini-B based planned series of one-shot 'spylabs' which were superseded by improvements in unmanned spy satellite technology. The programme was cancelled in 1969. http://en.wikipedia.org/wiki/Manned_Orbiting_Laboratory</p>
slash	<p>Which virgule helped a Challenger investigator study Dirac Fields? Feynman Slash Notation was invented by Richard Feynman in his study of Dirac fields in quantum field theory Feynman was on the Rogers Commission which investigated the Space Shuttle Challenger Disaster. Other commission members included Neil Armstrong, Sally Ride and Chuck Yeager.</p>
G	<p>Which island can be found at 18°9'N 11°3'W? Galaxy Island in 'Our Man Flint'. On a map in the film it is in the Mediterranean, almost equidistant - 250 kilometers - from the island of Mallorca, the cities of Barcelona and Marseille, and the islands of Corsica and Sardinia, but the coordinates are in Niger (North West Africa) http://www.imdb.com/title/tt0059557/trivia?tab=gf</p>
A	<p>What was discovered in October 2006, lasted 35 milliseconds and made sense out of nonsense? "A" in Peter Shann Ford's analysis of recordings of Neil Armstrong's "One small step for (a) man..." http://news.bbc.co.uk/1/hi/world/americas/5398560.stm</p>

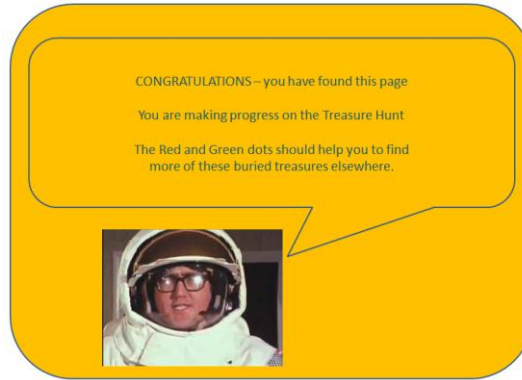
T	<p>Who liked Venetia's suggestion for X (the Ninth) and saw twinkling green fireballs</p> <p>Clyde Tombaugh was given the job to perform a systematic search for a trans-Neptunian planet (also called Planet X), which had been predicted by Percival Lowell and William Pickering. The discovery was made on Tuesday, February 18, 1930. The name "Pluto" was reportedly suggested by Venetia Burney, then an 11-year-old English school girl, who died in April 2009, having lived to see the reclassification of Pluto as a dwarf planet. It won out over numerous other suggestions because it was the name of the Roman god of the underworld, who was able to render himself invisible, and because Percival Lowell's initials PL formed the first 2 letters. The name Pluto was officially adopted on May 1, 1930 and today most astronomers agree that Planet X, as Lowell defined it, does not exist.</p> <p>Tombaugh also reported seeing Green Fireballs, a type of unidentified flying object which have been sighted in the sky since the late 1940s (In December 1949 Project Twinkle, a network of green fireball observation and photographic stations, was established but never fully implemented)</p>
H	<p>Who connects John Glenn and Gene Kranz in a moving way?</p> <p>Actor Ed Harris played them in the moving pictures 'The Right Stuff' and 'Apollo 13' respectively</p>
R	<p>What was Marfusa, an astronautical pioneer?</p> <p>First Rabbit in space (in 1959, the nominal birth year of Sofia Sellers, Chris Sellers and Bob Thompson)</p>
C	<p>Who was sued by a Deep Purple member for copyright infringement, related to a Frida Kahlo painting?</p> <p>Coldplay: On December 4, 2008 Joe Satriani filed a copyright infringement suit against Coldplay. Satriani's suit claimed that the Coldplay song "Viva la Vida" includes "substantial original portions" of the Satriani song "If I Could Fly" from his 2004 album, Is There Love in Space?. " Coldplay denied the allegation, saying the similarities were "entirely coincidental". On 14 September 2009, the case was dismissed by the California Central District Court, with both parties agreeing to an out-of-court settlement. "Viva la Vida", is taken from a painting by 20th century Mexican artist Frida Kahlo, which translates into English as "Long Live Life".</p>
K	<p>Which official boundary can Americans with wings reach by flying a further 20km or another 69km for Excelsior?</p> <p>The Kármán line lies at an altitude of 100 kilometres (62 mi) above the Earth's sea level, and is commonly used to define the boundary between the Earth's atmosphere and outer space. Although the United States does not officially define a boundary of space, the U.S. definition of an astronaut, which is still held today, is a person who has flown more than 50 miles (~80 km) above mean sea level. (see Major Bob White, above).</p> <p>Project Excelsior was a series of high-altitude parachute jumps made by Colonel (then Captain) Joseph Kittinger of the United States Air Force (USAF) in 1959 and 1960. The plaque on the Excelsior gondola read "This Is The Highest Step In The World" which on the third and final flight climbed to an altitude of 102,800 feet (31,333 m). So Joe was only a third of the way to space.</p> <p>After we set this question, Joe Kittinger helped Felix Baumgartner to break all but one of Kittinger's records (he retains the longest free fall record).</p>
E	<p>Which warrior princess with a lawless daughter was a source of discord who never cleared her neighbourhood?</p> <p>Eris, named after the Greek goddess of strife and discord, is the most massive known dwarf planet in the Solar System and the ninth most massive body known to orbit the Sun directly. Eris has one known moon, Dysnomia (from the Ancient Greek word meaning "lawlessness", after the daughter of the Greek goddess Eris). Due to uncertainty over whether the object would be classified as a planet or a minor planet, the decision on what to name the object had to wait until after the IAU ruling. As a result, for a time the object became known to the wider public as Xena ("Xena" was an informal name used internally by the discovery team. It was inspired by the eponymous heroine of the television series Xena: Warrior Princess, [ironically] played by Lucy Lawless). Under the '2006 definition of planet' both Eris and Pluto were defined not as planets but as dwarf planets because they have not cleared their neighbourhoods.</p>
T	<p>What didn't Donald and Walter have that the others were named after?</p> <p>Thunderbird pilots. Those 5 members of the Tracy family were named after Mercury 7 Astronauts (Scott, Virgil, Alan, Gordon and John), but Slayton and Schirra weren't chosen for this honour. Does anyone agree that Gerry Anderson might have thought that Deke and Wally were inappropriate names for Thunderbirds heroes?</p> <p>There was an unintended coincidence that this also pointed towards Donald Fagen and Walter Becker aka Steely Dan.</p>

www.snipurl.com/gathrocket

Garth Rockett: an alter-ego for Ian Gillan who toured as Garth Rockett and The Moonshiners in a break from Deep Purple

<http://www.deep-purple.net/tree/gillan/garth-rockett.htm>

This page hinted that the green-red dots should be used for more snipurls. James Burke (pictured) was a key BBC commentator on the Apollo missions and later did a series called Connections. Marks are awarded for identifying the pictures but further marks are received for identifying their thematic connections (see scoring schema).



ONLY CONNECT

Warsaw	Heilsberg	Inkerman	Tsushima
East	Salute	Peace	Ascent
Chewbacca	Edinburgh	Impossibility	Gunderam
Napoleon	Oslo	Rastrelli	Erysimum

Battles (which Russia lost/drew)	12-25 August 1920 vs Poland	10 June 1807 vs France	5 Nov 1854 vs GB & Fr	27-28 May 1905 vs Japan
(Translated) Russian Spacecraft / Stations	Vostok	Salyut	Mir	Voskhod
Defenses	South Park	Internet	Legal	Chess
Winter	Winter Retreat 1812	Winter Olympics 1952	Winter Palace Saint Petersburg	Winter Orchid & Winter Rocket

Acrostic Anagram: **IGNORE WHITESPACE** (letters highlighted above)

Battles which Russia lost/drew

Inkerman was a decisive Crimean War battle on 5 November 1854 between the allied armies of Britain and France against the Imperial Russian Army. The battle broke the will of the Russian Army to defeat the allies in the field. The role of troops fighting mostly on their own initiative due to the foggy conditions during the battle has earned the engagement the name "The Soldier's Battle".

Warsaw: There have been too many 'Battle(s) of Warsaw' and plenty of those involved Russia, but I chose of The **Battle of Warsaw**, fought from 12–25 August 1920, sometimes referred to as the Miracle at the Vistula, which was the decisive battle of the Polish–Soviet War. That war began soon after the end of World War I in 1918 and lasted until the Treaty of Riga resulted in the end of the hostilities between Poland and Russia in 1921, securing the Polish state's eastern frontiers for roughly the next twenty years.

Heilsberg: Russian tactical victory, French strategic victory. An indecisive battle, Heilsberg was fought 10 June 1807 on four days before the decisive Battle of Friedland.

Tsushima, also known as the "Sea of Japan Naval Battle". Fought on 27–28 May 1905 (May 14–15 in the Julian calendar then in use in Russia), it was the last sea battle of the Russo-Japanese War. This was naval history's only decisive sea battle fought by modern steel battleship fleets, the first naval battle in which wireless telegraphy played a critically important role, and has been characterized as the "dying echo of the old era – for the last time in the history of naval warfare ships of the line of a beaten fleet surrendered on the high seas."

Russian Spacecraft / Space Stations – some translations have alternatives e.g. Vostok: East or Orient, and Voskhod: Ascent or Dawn. Some (unused) others are quite interesting too, such as Soyuz: Union, Buran: Snowstorm or Blizzard, and Almaz: Diamond

Defences

An **Impossibility Defence** is a criminal defense occasionally used when a defendant is accused of a criminal attempt that failed only because the crime was factually or legally impossible to commit.

The **Gunderam Defence** is a rarely played chess opening, named after the chess player Gerhard Gunderam and is categorized under the ECO code C40.

The **Chewbacca Defence** is a legal strategy used in episode 27 of South Park, "Chef Aid". The aim of the argument is deliberately to confuse the jury by making use of the fallacy known as ignoratio elenchi (or a **red herring**). The concept satirised attorney Johnnie Cochran's closing argument defending O. J. Simpson in his murder trial.

The **Edinburgh Defence** is an Internet adage employed in online forums and message boards the basic premise of which is that when losing discussion or argument rather than conceding defeat the poster suddenly switches tactics and adopts an "I was only joking" approach. The adage was first used on the UK-based singletrackworld.com mountain biking forum.

Winter

Napoleon - winter connection but partly also for sideways links to Russia and the Battles, and a possible detour into the Napoleonic Code.

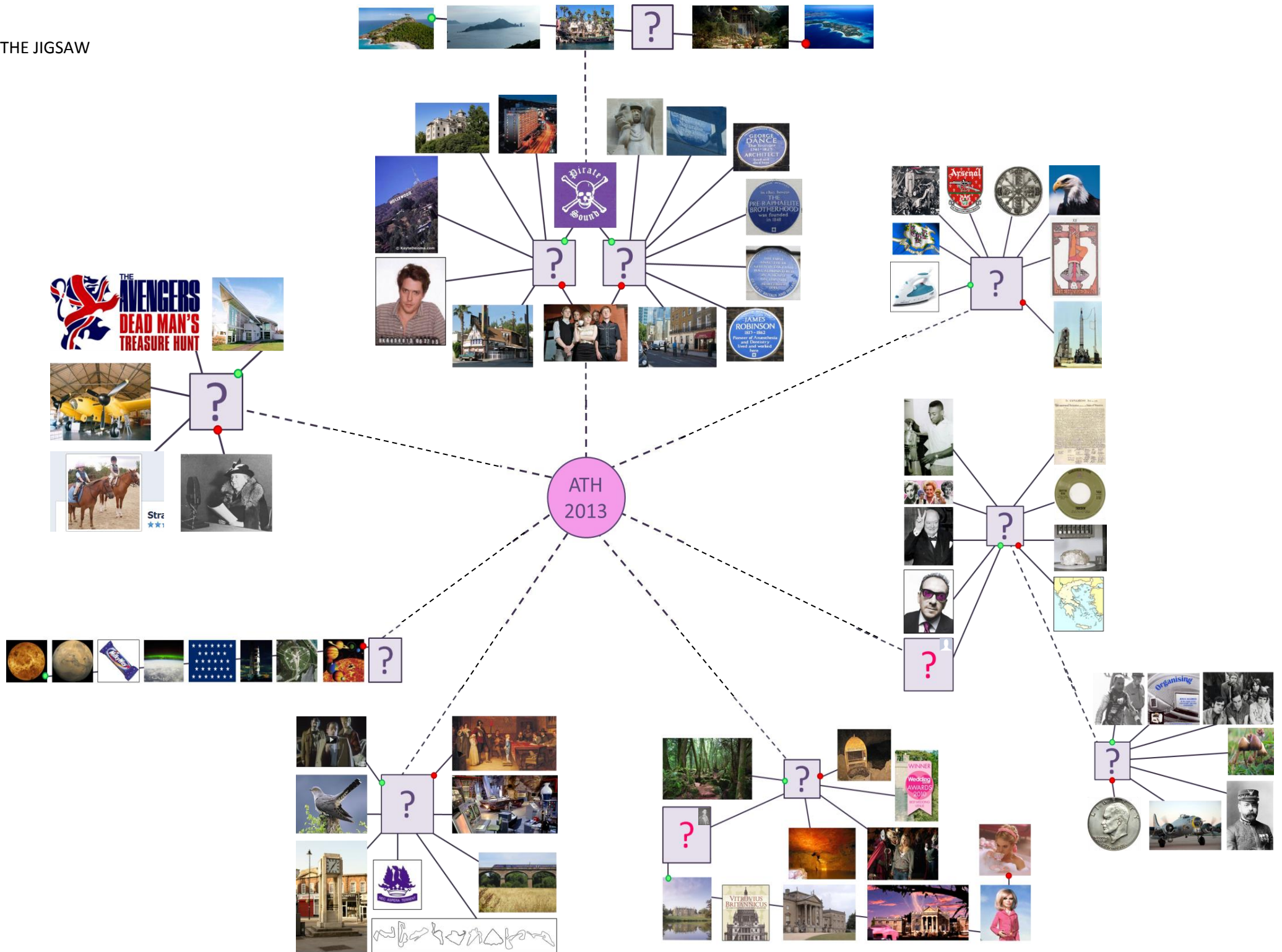
Rastrelli - Architect (of St Petersburg's Winter Palace) maintains the Russian connection and a small theme relating to architects elsewhere in this ATH.

Oslo - the Winter Olympics seemed an obvious winter connection to include (and Russia is hosting the next winter games in February 2014).

Erysimum – I was originally thinking of the Winter Orchid, but Erysimum genus also provides one of the synonyms for winter rocket (Erysimum barbarea), which supplied a tenuous link to the space theme too.

BONUS CONNECTION: Russian Winter (i.e. cold war) Defence Spacestation - could describe the Almaz ('Diamond') space station programme, also named Salyuts 2, 3 & 5

THE JIGSAW



There are 7 branches and 3 sub-branches radiating out from the central 'ATH2013' hub. The 10 branches & sub-branches represent both the number of original studio albums and number of original members in Deep Purple Marks I-IV. Starting at the top and going clockwise:

Branch 1 – Sunset Gower

The two ?s on this branch are (Left) **Sunset**, and (Right) **Gower** – This branch represents Rehearsal Room 4 at Pirate Sound studio in the Sunset Gower Complex in Los Angeles.

Link: This branch links to the Sunset Gower virtual treasure site (photo of Sy Liebergot, Apollo EECOM)



Sunset has 5 unique links, Gower has 7 unique links and there are two shared links. There is also a sub-branch (1a, below) out of Pirate Sound.


Joint clues

Photo		Explanation
Pirate Sound	P	The Fourth Deep Purple Rehearsal Room. Pirate Sound was set up on the Sunset Gower complex at 1420 Beechwood Drive. The picture is taken from the Deep Purple Beechwood Drive CD label - the flag is on the cover of the CD
Rolo Tomassi	R	British mathcore band (whatever mathcore is) named after a fictional character from the film LA Confidential. Using this to link Sunset and Gower is to emphasise the Los Angeles (rehearsal room) link

This is the virtual Treasure Hunt site for Sunset Gower

CONGRATULATIONS – you have reached a virtual Treasure Site

If you are an ATH entrant and have found this virtual site
send an email with the title
"Sunset Gower"
to the [ATHsetters](#) email address on the main puzzle page



Sunset (i.e. the 5 unshared links link to Sunset Boulevard. This also links to the earlier 36 photo page which gives the message 'only use studio albums most recent version' via the Sunset Boulevard (play/musical) poster) **CODE: phchgrr**

Photo		Explanation
Pirate Sound	P	(as above)
(Continental) Hyatt House Hotel	H	The Hyatt was the infamous 'Riot House' on Sunset Boulevard where rock bands stayed, partied and made mischief in the 70s. Subsequently refurbished and renamed the Andaz West Hollywood
Chateau Marmont	C	Another (in)famous hotel and celebrity hang-out just off Sunset Boulevard, where John Belushi and Helmut Newton (among other) died, although no direct DP connection that I'm aware of. Apparently also the 'Hotel California' of Eagles fame
Hollywood Sign	H	Visible from Sunset Boulevard, although if you follow the copyright you'll find it was actually taken on Beechwood Drive. There are two Deep Purple CDs of the rehearsal tapes, one of which is called 1420 Beechwood Drive, after the address of Pirate Sound Studios where it was recorded.
Hugh Grant	G	The 'Divine Brown' arrest photo. Hugh's indiscretion occurred on a side street just off Sunset Boulevard
Rainbow Bar and Grill	R	Another rock star hang out on Sunset Boulevard. Quite a history of events and liaisons here; also significant to the ATH as Ritchie Blackmore (DP Guitarist) named his first post DP band 'Rainbow', reportedly after this bar, and the Rainbow sleeves are used to make the numbers up to 26 on the ETAOIN page of the ATH
Rolo Tomassi	R	(as above)

Gower (For some misdirection, every link here refers to Gower Street in London rather than Gower Street in Hollywood.

36 photo page link is to the old MI5 headquarters building on Gower Street – MI5 link to Evans/Paice pre-DP band known as both MI5 and The Maze).

Brian's photos of Blue Plaques and RADA, so a bit closer to home than Los Angeles

CODE: **prddparsr**

Link: This branch also links to the Sunset Gower virtual treasure site (photo of Sy Liebergot, Apollo EECOM)

Photo		Explanation
Pirate Sound	P	(as above)
RADA	R	Statue of the mask of Tragedy above the entrance to RADA (by Alan Durst). The sculpture has Comedy wearing the mask of Tragedy on the left plinth and Tragedy wearing the mask of Comedy on the right plinth
Charles Darwin	D	Five blue plaques on Gower Street. The Wiki site for London Blue Plaques only lists some of the Gower Street plaques and the other 4 plaques aren't listed on there. This one is the only one I have used which is listed but it was helpfully obscured by scaffolding when I took the photo.
George Dance the Younger	D	Gower Street Blue Plaque – all of the architects in this jigsaw puzzle were on the same jigsaw page
Pre-Raphaelite Brotherhood	P	Gower Street Blue Plaque – I think this was also the site of Millais' studio (Millais being one of the PRB founders). Incidentally, Pablo was quite fond of the PRB and the English Arts and Craft Movement (e.g. William Morris) and the last time I was in his Upper Street flat the finished décor was very PRB/Arts & Craft
Anaesthetic	A	Gower Street Blue Plaque on Bonham-Carter House
James Robinson	R	Gower Street Blue Plaque – Dentist and anaesthetist – first person to demonstrate the use of ether in Britain
Sherlock	S	North Gower Street stood in for Baker Street in the BBC Sherlock series and is within sight of the site of the former MI5 building and a short walk from both Stephenson House and King's Place. What would Sherlock Holmes have made of the ATH? Mincemeat, probably! Series 3 of Sherlock broadcast during this ATH. Overlay of Benedict Cumberbatch as Sherlock added as a clue.
Rolo Tomassi	R	(as above)

Branch 1a - (Fictional) Islands **CODE:** **tmtagt** This is a sub-branch leading from Pirate Sound (to Treasure Island).

Link: This links to Phil's Hamming Code exam question, which gives the Space Truckin definitive lyrics used as one time pad encryption key

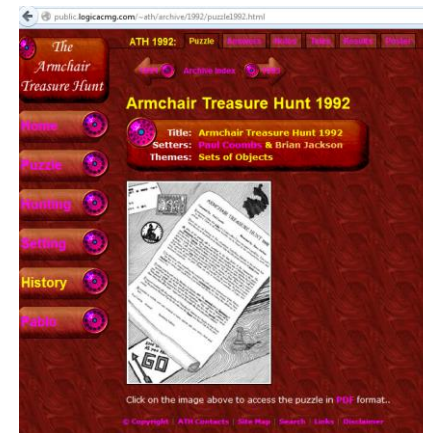
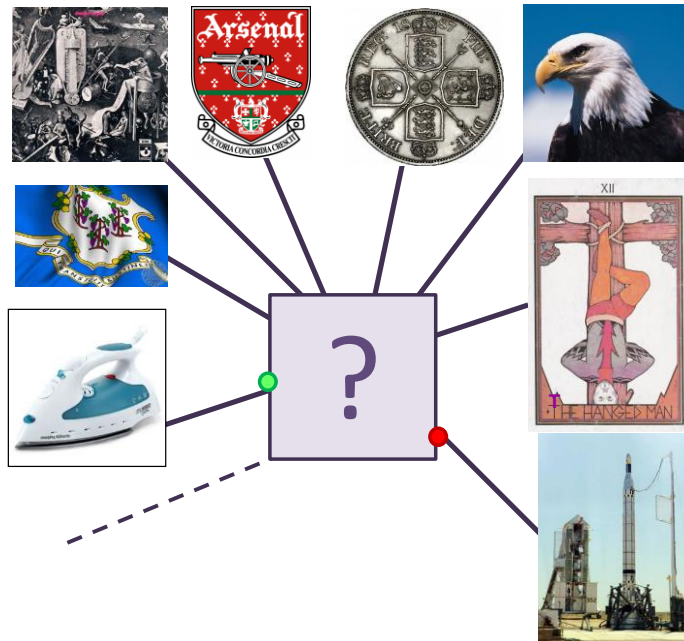


Some of these are real islands which share the name with fictional islands:

Photo		Explanation
Tracy Island	T	Tracy Island from Thunderbirds – there are several Thunderbirds related links elsewhere
Minamisatsuma Island	M	Blofeld's extinct volcano location in 'You Only Live Twice' was said to be on Matsu Island located somewhere between Kobe and Shanghai. In fact the real Minamisatsuma Island is Chinese not Japanese – the actual volcano exterior in the film was Mount Shinmu-dake in Kirishima-Yaku national park (Link to 36 photo page – You Only Live Twice) [Google photo attribution may be inaccurate - could be Okiakime Island]
Treasure Island	T	Treasure Island Hotel in Las Vegas where the Sirens of Treasure Island perform nightly. This photo is thematically linked to Pirate Sound on the main Sunset Gower branch (via Pirates), plus other tenuous pirate links
(?) Atlantis	A	? = Atlantis . One of the most famous fictional islands, Atlantis is a legendary island first mentioned in Plato's dialogues Timaeus and Critias. The volcanic island of Thira (or Santorini) is my preferred guess to the possible location of pre-eruption Atlantis. Atlantis is also thematically connected to spaceflight, as the fourth operational space shuttle (although named after RV Atlantis – see 36 pic grid)
Galaxy Island	G	Galaxy Island from Our Man Flint – several OMF links elsewhere including 36 photo page (Theme Song covered by Jon Lord pre-DP band The Artwoods). Galaxy Island is also the answer to one of the 25 questions, similarly OMF linked.
Turtle Island	T	Deep Purple released a fans only single (Dick Pimple – The Turtle Island Shuffle) which contains a non-album studio jam recorded during the Purpendicular CD sessions, and finally released on the 'Who Cares' album to raise money for Armenian Charity (as per the 25 questions)

Branch 2 – ATH 1992 CODE: icdadetb

Link: This connects to the 1992 ATH on the Logica site, so anyone who hasn't already looked it up will see it in the end.



The ? is the **ATH 1992** (Brian's last one as a setter). On the assumption that some teams will look at his old hunts this should raise a wry smile as well as this branch being a nod to Pablo. Some of the 1992 answers are also links to Deep Purple, NASA and other ATHs and one to Deeves Hall area:

Photo		Explanation
Iron	I	The plug on the 1992 iron drawing had Made In Japan on which referred to another DP question in the 92 ATH (as noted in 1992 answers). This links indirectly to the Bob On The Road blog. NB this is not a 1992 Answer but the DP link is referenced in the answers
Connecticut Flag	C	A 1992 answer, but also one of the post-hoc connections – When Deep Purple reformed in 1984 their first meeting was in Connecticut – probably the location of a fifth rehearsal room too.
Deep Purple (Third Album)	D	A 1992 answer to the Deep Purple question and the last album by the line up that was formed in Deeves Hall
Arsenal (old emblem)	A	A 1992 answer. The new Arsenal Training Ground is less than 3 miles from Deeves Hall (and the Google Maps route passes Rabley Park and the DeHavilland/Mosquito Museum)
Double Florin	D	A 1992 answer. The Four Shilling piece a.k.a. the barmaid's nightmare was only in circulation 1887-1890 and a nod to the coins ATH
Eagle	E	Apollo 11 Lunar Module call sign - a 1992 answer to the Lunar Module question. American Bald Eagle was on the Apollo 11's mission patch and was also used as the usual reverse of the Eisenhower dollar apart from the 'Liberty Bell' bicentennial issue (see elsewhere). Also note cross reference to Brian Cox question in 25 Questions
Tarot (The Hanged Man)	T	A 1992 answer and, post-hoc, a reference to the 2007 Hunt – Pablo's last ATH
Black Knight Rocket	B	Refers to Black Knight chess piece answer which also referred to 1989 ATH (in which Brian devised a chess code) and in turn to Deep Purple's most successful UK single 'Black Night' as noted in the 1992 answers

Branch 3 – National Treasure CODE: **bccspdtmg**

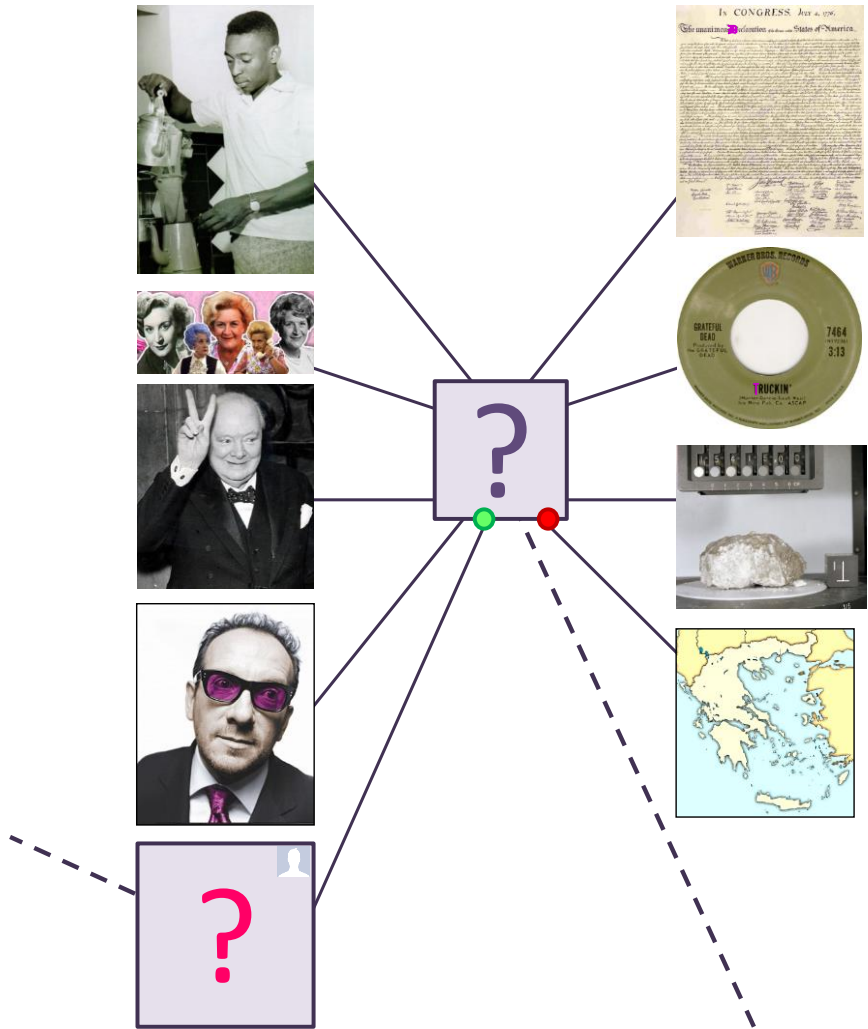
Link: This links to the 'Bob on the Road' blog, which is explained elsewhere (Backstory) and has a pointer to the definitive Space Truckin lyrics, from the lyric sheet included in the original vinyl versions of the Machine Head album/

There are two ?s and a sub-branch, which are arguably all just a very convoluted excuse for the Sean Bean question. If you put three or four of the answers into Google, you should get the wiki page for 'National Treasures', from which the answers tumble.

The different colour of the ? is an indicator that this is an exception (and that it is one of two ?s that refers to a person – as is the small Facebook anonymous male head)

Photo		Explanation
(?) Sean Bean	B	The left hand side pictures are all people so there is a clue that the differently coloured left hand ? is also a person. The right hand side pictures are all objects or artifacts. There are four pictures on each side (excluding sub-branch and ?) which give the number of letters in SB's name – hence how they are grouped together. So the central ? is National Treasure , the first film in a franchise with Treasure Hunting as the central core of the films. National Treasure 3 is apparently in development and planned for a 2014 release. These point to a treasure hunting theme, a person (4,4) and it also links to the ATH2013 hub. Yes, the second (left hand side) ? is Sean Bean . Some ATHers seem to view him as some sort of national treasure – so be it!
Elvis Costello	C	Described as a national treasure in Q magazine in 2008
Winston Churchill	C	Declared a national treasure by Elizabeth II in 1952
Molly Sugden	S	From her website 'Official Molly Sugden: A National Treasure'
Pele	P	Declared a national treasure by the Brazilian government in 1962 to prevent him being transferred out of the country

Declaration of Independence	D	Cultural artefact at the core of the plot of National Treasure 1
Truckin'	T	Truckin' by the Grateful Dead was declared a National Treasure by the US Library of Congress (which is a key location in the second National Treasure film). Truckin is also a nod to Deep Purple's Space Truckin (see below)
Moon Rock	M	This picture is the Apollo 15 Anorthosite 'Genesis Rock', possibly part of the moon's primordial crust and certainly key to aging the moon and confirming current theories of Earth / Moon formation
The Greek Coastline	G	Declared a national treasure by the Greek Constitution of 2001



Bob on the road

Can you hear anything louder than everything else?

Highway Star

Chick

He ha ha - you, we really can't use "Mr Gensky", much as I'd love to. Here's another one instead, though I think you haven't caught up on all your "you know who yet".

D: The good news is we have a better composer!

Space Truckin'

*We had a lot of luck on Venus
 We always have a ball on Mars
 Meeting all the groovy people
 We've rocked the Milky Way so far
 We danced around with Borealice
 We're space truckin' round the stars
 Come on lets go Space Truckin'*

*Remember when we did the moonshot
 And Tony Trekker led the way
 We'd move to the Canaveral moonstop
 And everyone would dance and swoon
 We got music in our solar system
 We're space truckin' round the stars
 Come on lets go Space Truckin'*

*The fireball that we rode was moving
 But now we've got a new machine
 Yeah Yeah Yeah the freaks said
 Man those cats can really swing
 They got music in their solar system
 They've rocked around the Milky way
 They dance around with Borealice
 They're Space Truckin' everyday
 Come on*

"Can we have everything louder than everything else?"

...is some between song chat on the Made In Japan album, which was recorded in 1972 between 15-17 August.

Decomposition of the relevant blog contents is provided in the scoring spreadsheet.

The 'Definitive' Space Truckin lyrics

The original vinyl versions of Machine Head had a folded calligraphy lyric sheet (excerpt to left)

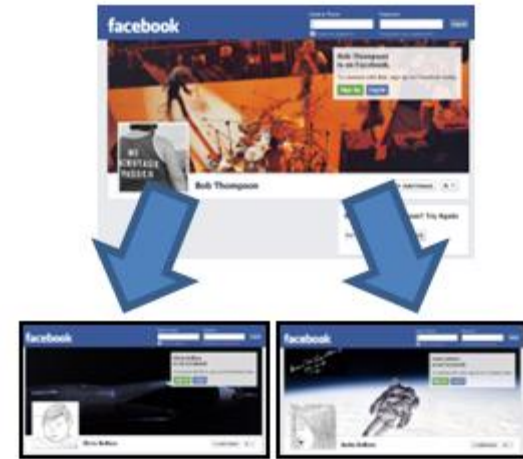
This was chosen as the version to use as the decryption key. This is referenced in the Bob On The Road blog.

Sub-Branch 3a – Liberty Bell CODE: **gompsbe**



Some points were available uniquely on the Facebook pages to reward those teams prepared to sift through all the posts and comments (plus a big Hamming Code clue for anyone stuck)

Bob's Facebook Page



**Chris's
FB Page**


**Sofia's
FB Page**

For anyone who decided to interpret the initial instructions as 'completely ignore the facebook pages' but answered the Q(A) Sofia's birthday question on the trail ... where did you get her birthday from?

Link: This links to the Bob Thompson Facebook page and the wealth of backstory material in there.

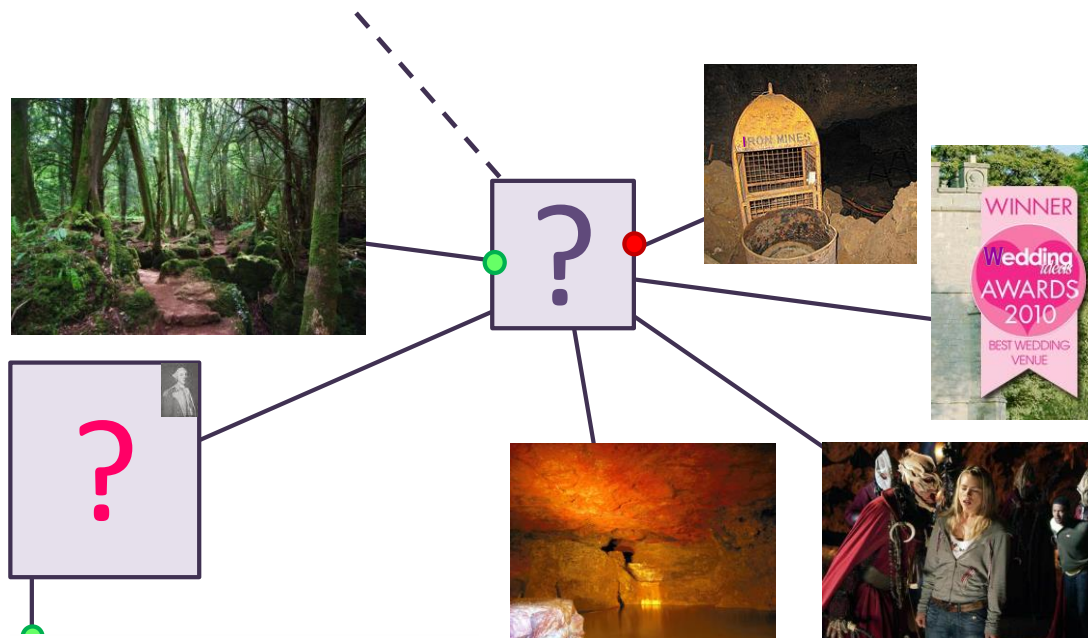
This ? is the **Liberty Bell**, which links into the National Treasure film ? and is also a key plot artefact in National Treasure 1.

Photo		Explanation
Gus Grissom	G	Mercury Seven astronaut and second American in space. The photo shows him just after rescue from nearly drowning after his Mercury flight when the capsule hatch blew open and the spacecraft sank (his capsule was nicknamed Liberty Bell 7 and was recovered from the floor of the Atlantic on July 20 1999, the 30 th anniversary of Apollo 11 moon landing). Grissom later flew the first manned Gemini flight (Gemini 3) and died in the Apollo 1 fire
Organising	O	A 1973 recording by Joyce Allred using the Compton Organ of the Davenport Theatre, Stockport. Why this? Because the track list contains both 'Liberty Bell' and 'Deep Purple' (the song that the band finally took their name from at Deeves Hall – see 36 photo page for some of the alternative names used and/or rejected) Apparently one of Phil's first concerts was at the Davenport Theatre ... further details remain elusive (not Blondie by any chance, Phil?)

Monty Python	M	Sousa's Liberty Bell March was used as the TV theme tune – apparently chosen by Terry Gilliam because they thought it couldn't be associated with the programme's content, although the fact that it was in public domain and so free from royalties probably didn't hurt
Psilocybe semilanceata	P	Mushroom known variously as the Liberty Cap, the Liberty Bell and the 'magic' mushroom
John Philip Sousa	S	The Composer of the Liberty Bell March
B-17 Flying Fortress	B	There were several B-17s named Liberty Belle and one, named Miss Liberty Belle, is displayed in the Grissom Air Museum
Eisenhower Dollar	E	The Eisenhower Dollar was issued from 1971-78. The usual reverse design was based on the Apollo 11 Mission Insignia, but for the US Bicentennial the reverse design was changed to The Liberty Bell and The Moon. As shown here, the obverse was changed slightly to show a double date (1776-1976). 

Branch 4 – Clearwell Castle **CODE: pmcdwi**

Link: This branch links to the Clearwell Castle virtual treasure site.



There are two ?s The main one is **Clearwell Castle**. This branch represents Rehearsal Room 3 at Clearwell – there is also a link to the 36 photo page and the Dowager Duchess of Dunraven (also listed as Caroline, Countess (of) Dunraven in other attributions).

The different colour of the second ? is an indicator that this is an exception (and that it is one of two ?s that refers to a person, as is the small picture of Roger Morris Junior)

The second ? is **Roger Morris**, the palladian architect and photos linked to this ? form a sub branch

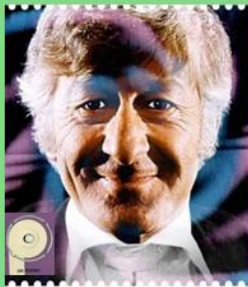
Since there are no readily findable pictures of Morris it makes him an extremely elusive figure and quite a difficult connection (hence the picture of his son as a clue).

Photo		Explanation
Puzzlewood	P	Another Doctor Who location near Clearwell in the Forest of Dean, with a nicely appropriate ATH related name
(?) Roger Morris	M	Roger Morris is believed to be the architect of the original Anglo-Palladian villa at Cobham Park.
Clearwell Caves	C	A popular Doctor Who location
Doctor Who	D	This still shows the 2005 xmas episode “The Christmas Invasion” – David Tennant’s first full length (post-regeneration) episode as The Doctor. The ATH isn’t the only Christmas tradition. Who isn’t his surname (or name) hence using D here By another coincidence, the Doctor Who 2013 Christmas special saw another Doctor’s regeneration (Matt Smith into Peter Capaldi)
Wedding Award	W	Clearwell Castle is now an (award winning) wedding venue
Iron Mines	I	Part of Clearwell Caves which are a working mining museum (the word ‘Clearwell’ has been removed from the photo)

This is the virtual Treasure Hunt site for [Clearwell Castle](#)

CONGRATULATIONS – you have reached a virtual Treasure Site

If you are an ATH entrant and have found this virtual site
send an email with the title
“[Clearwell Castle](#)”
to the [ATHsetters](#) email address on the main puzzle page



The photo of Jon Pertwee comes from the postage stamps issued to celebrate the 50th anniversary of Doctor Who in 2013.

In the bottom left corner is a piece of the Purple Records single PUR111 on Deep Purple’s Purple Label by Jon Pertwee - "Who is the Doctor". (Phil hasn’t heard this either)

Link: This links to the Don Airey interview with the Bobby Thompson story “Bobby - Put the f***** plug back in!”



Photo		Explanation
Cobham Park	C	Roger Morris is believed to be the architect of the original Anglo-Palladian villa at Cobham Park. Cobham Park is also a Logica connection/question. Logica originally leased and then owned the buildings between 1979 and 2001
Colen Campbell	C	Vitruvius Britannicus (The British Architect) was written by Campbell. Roger Morris is believed to have been Campbell’s assistant.
Stourhead House	S	The Stourhead estate includes a palladian mansion designed by Campbell in real life (while according to the Gerry Anderson Encyclopedia C-W Mansion was also designed by Campbell)
Creighton-Ward Mansion	C	C-W Mansion in Thunderbirds was based on Stourhead House. In the programme it is located at Foxleyheath in Gloucestershire. However, since Foxleyheath is a fictional location it could be quite close to Clearwell
Lady Penelope Creighton-Ward	C	Lady Penelope, Resident of the above mansion, and another link to Thunderbirds
Sophia Myles	M	Sophia Myles, who played Lady Penelope in the dreadful Thunderbirds film (and also was in one of the best David Tennant Dr Who episodes ‘The Girl in the Fireplace’). Also a nod to the similarly (but not identically) named ATH protagonist Sofia Sellers (aka Mrs Chris)

BBC Home Search Explore the BBC

This page was last updated in June 2003
We've left it here for reference. [More information](#)

6 January 2014
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Wear features

Rock's journeyman who never forgot his roots



Don Airey rehearsing during his stint in Rainbow.

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[Wear music](#)
[Other questionnaires](#)
WEB LINKS
[Don Airey official site](#)
[The Highway Star - The original Deep Purple web pages](#)
[1212.com](#)

Don Airey is a much-travelled man. One of the most sought after keyboard players in popular music, his CV reads like a who's who of British rock music.

He's played on albums by the likes of Ozzy Osbourne, Rainbow, Whitesnake, Black Sabbath, Gary Moore, Brian May, Cozy Powell, and Jethro Tull, and is in the middle of recording a new album with rock legends Deep Purple, still a force to be reckoned with on the live circuit.

Born in Sunderland in 1948, Don Airey has never forgotten his roots, despite touring the world many times over. Busier than ever, he still found

What's the most embarrassing thing that's ever happened to you on tour?

Playing with Ozzy at Madison Square Gardens in 1984 to 17,000 people. The keyboards were on a hydraulic lift complete with fake organ pipes. I used to appear for the second song playing the intro to "Mr Crowley".

That night as the riser started its ascent, the power cable got caught in the mechanism and was yanked out, bringing the whole contraption to a sudden halt.

The keyboards went off and there was total silence in the packed hall. My roadie, Bobby Thompson, froze.

Looking over the rail I shouted to him, "Bobby, put the plug back in!" No effect, so rather louder, "Put the f***** plug back in."



Former bandmate, Ozzy Osbourne

Large sections of the audience picked up on this and in true New York style all took up the cry, "Yeah Bobby, put the f***** plug back in!"

In went the plug, the riser lurched back to life, and I completed the intro, the keyboards now horrendously out of tune.

This story finally helped to give our Bob Thompson a name

Chris Sellers is a fictional shuttle astronaut and was a combination of 'Chris' (You Only Live Twice fictional astronaut - see facebook header pic) and NASA biographies of real astronauts inc Michael Foale, Gregory H. Johnson, Nicholas Patrick and of course Piers Sellers

Sofia is from Sophia Loren, linked to Peter Sellers, Sofia in Bulgaria and NASA SOFIA - The Stratospheric Observatory for Infrared Astronomy (SOFIA) is a joint project of NASA and the German Aerospace Centre to construct and maintain an airborne observatory. NASA AMES biographies for Imelda Terrazas-Salinas, Debra Reiss-Bubenheim and Yvonne Pendleton helped construct the character too. Sofia was a ground based payload specialist on comms and crypto


Branch 5 – Hanwell CODE: occnswby

Link: This branch links to the Hanwell Community Centre ('CC') virtual treasure site. The image is Chris Curtis (another 'CC') who played a key role in founding Roundabout / Deep Purple (see http://en.wikipedia.org/wiki/Chris_Curtis), responsible for introducing Tony Edwards, Jon Lord and Ritchie Blackmore to each other.

This is the virtual Treasure Hunt site for [Hanwell Community Centre](#)

CONGRATULATIONS – you have reached a virtual Treasure Site

If you are an ATH entrant and have found this virtual site send an email with the title "HanwellCC" to the [ATHsetters](#) email address on the main puzzle page



Disambiguation: This is Chris Curtis (of the Searchers – appropriate for the ATH) and Roundabout / Deep Purple / Gunter Grove connections

It is not Frank Allen of the Searchers – I suspect this misidentification comes from Frank Allen's Tribute Page to Chris Curtis

This ? is **Hanwell**. This branch represents Rehearsal Room 2 at Hanwell Community Centre. There are links to the 36 photo page via Charlie Chaplin (HCC pupil and yet another 'CC'), Billy Elliot (filmed at HCC) and Jim Marshall (Hanwell based manufacturer of the amps that changed the sound of rock in the 60s and 70s).

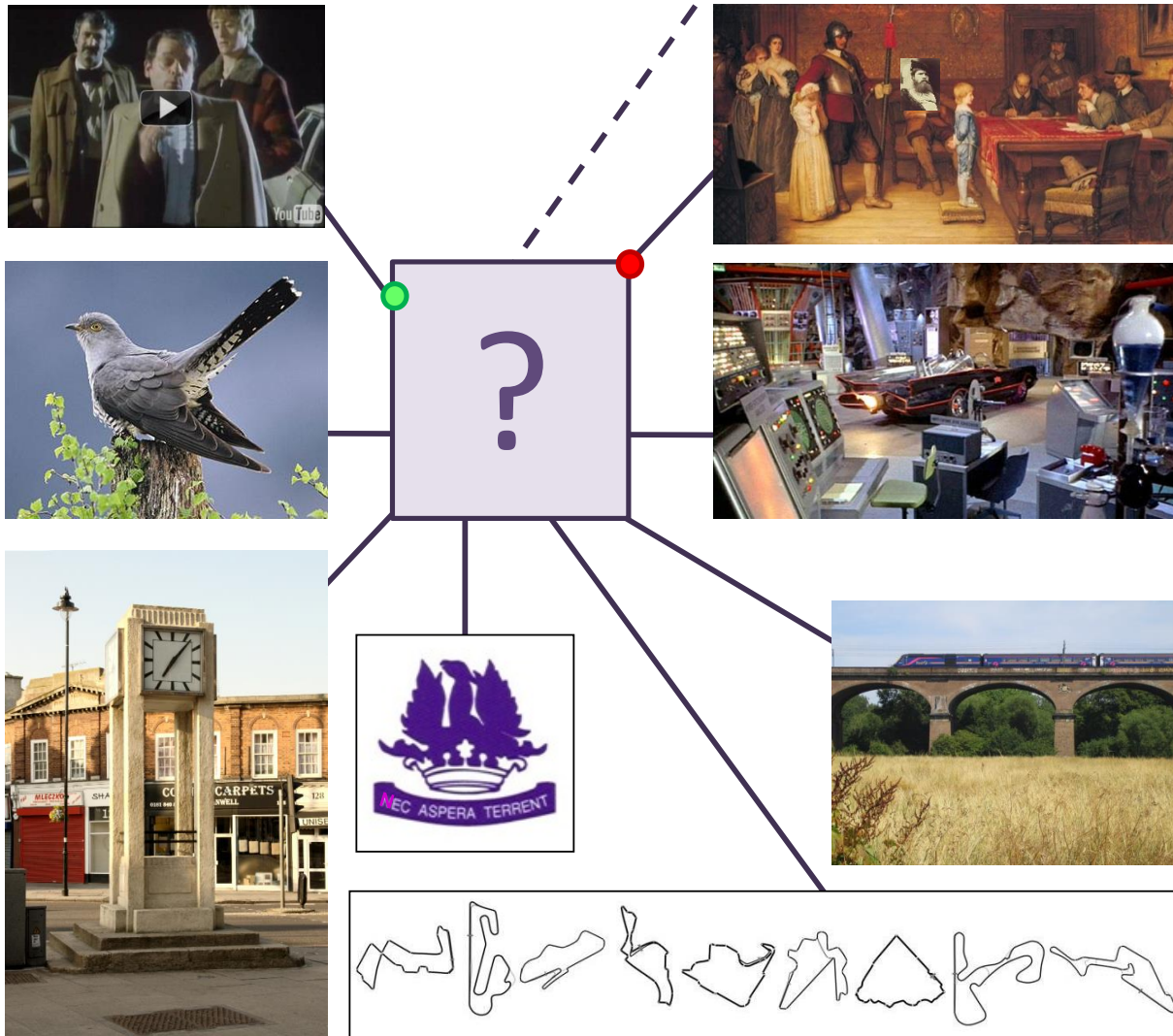
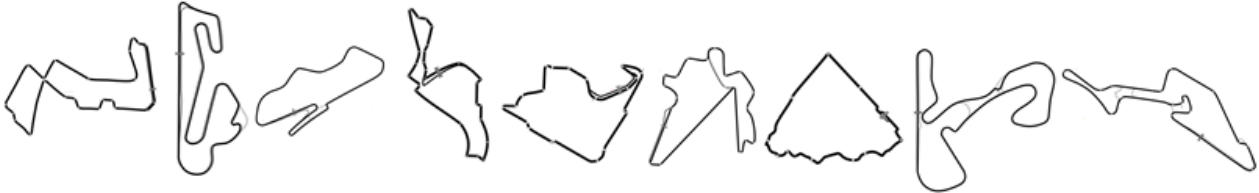


Photo		Explanation
Only Fools and Horses	O	Picture is a screen shot of a you tube clip on HCC web site from OF&H episode Cash and Curry
Cuckoo	C	The Hanwell Schools (Central London District Schools) became known as Cuckoo Schools, after the old name for the area in Hanwell that they relocated to around 1856
Coronation Clock Tower	C	Unveiled in 1937 for George VI's coronation
Nec Aspera Terrent	N	'Not Deterred by Difficulties' - The motto of Hanwell Urban District Council and Drayton Manor High School - a suitable ATH motto.

Speed King	S	<p>A puzzle within the puzzle. 9 Grand Prix (F1) circuits spell out Speed King which is the first song written by DP Mk 2 at Hanwell</p> <p>S - Singapore – Marina Bay P – Portugal - Estoril E – European – Donington (Where Rainbow headlined the first Monsters of Rock festival in 1980) E – European - Valencia D – Dallas – Fair Park K – Korea – Korea International Circuit (South Korea) I – Italy - Pescara N – Netherlands - Zandvoort G – Germany – Nurburgring</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>Sean Bean did BBC F1 voiceover idents for 2011 and 2012 seasons</p> </div>  <p style="text-align: center;"> Singapore Marina Bay Portugal Estoril European Donington European Valencia Dallas Fair Park Korea Korean Int Italy Pescara Netherlands Zandvoort Germany Nurburgring S P E E D K I N G </p>
Wharnccliffe Viaduct	W	Carries the Great Western Railway over the River Brent and was designed by I.K.Brunel
Batcave	B	Wharnccliffe Viaduct has hollow cavities in the supporting piers which form the largest bat cave complex in the whole of London and possibly the south of England. The bat colonies are protected by the Countryside Act 1981
W F Yeames	Y	'And when did you last see your father?' was painted by Hanwell resident Yeames and used in the 2011 ATH. A small picture of Yeames was overlaid on the painting to indicate that he was the connection.

Branch 6 – Space Truckin

CODE: vmmbsmcs

Link: This links to a You Tube performance of Space Truckin, of which there are quite a few.



The ? is **Space Truckin'**. The Rollout poster says "Let's Go Space Truckin'" and the song lyrics are space travel related. **Fireball** gets a bonus as it's in the song's next line.

Photo		Explanation
Venus	V	We had a lot of luck on Venus (second planet photo)
Mars	M	We always had a ball on Mars (fourth planet photo)
Milky Way	M	We've rocked the Milky Way so far (a chocolate bar from the Mars corporation)
Borealis	B	We danced around with Borealice (the band apparently knew a girl they nicknamed 'Boring Alice' which this is an allusion to as well as the pun on Borealis). North Arrow added to differentiate from the Aurora Australis (the Southern Lights)
Stars	S	We're space truckin' round the stars. The flag is the 31 Star Jack of the United States, which was the jack from July 4 1851 to July 3 1858. Why the 31 stars variant? To represent the 31 manned missions flown in Mercury (6), Gemini (10) and Apollo (15 = 11 Moon, 3 Skylab, 1 ASTP)
Moonshot	M	Remember when we did the moonshot (Apollo Saturn V on the launch pad)
Canaveral	C	We'd move to the Canaveral moonstomp (satellite picture of Cape Canaveral launch complex)
Solar System	S	We got music in our solar system (stylised picture of the sun and planets in the solar system)

Over the years the Space Shuttle has frequently been referred to as a 'Space Truck', hence using that on the Launch poster rather than an Apollo spacecraft. On the 36 Photo page there are 12 Shuttle related references (Atlantis, Buran, Enterprise, Engle, ISS, Imahara, Lost World, Orion, Spacelab, STS-107, Thaw, Vandenberg)

Branch 7 – Deeves Hall

CODE: **samsw**

Link: What does this link to? A page of characters – one time pad cyphertext, encrypted directions



```

LEYKFACOMDZMIPOVHIHE
YVWRDQEVCHDAGOTPWLCR
FDEYWMVWTTUGLWETRIZF
ASMQVEHTZRHIAKHJOYAP
TUCPIJCZATUWSSSFBDMS
OKVWHUOSNQZNBYPHUEFP
WPKWXVASAKRELKNGOJHZ
ZXVQZHRVMUIFTWSLHRIM
MGTZWUTVEDVJCDPHEHQV
IJVVOWEFOXKMITYQABMB
MYZXFGTQKUYMZWOJKZJ
CXYSVEPKILSVOJBXOAC
LXTJARROFVSCGESHTNUC
JYJFBUFWOSYPOHPUCRTF
DFZWYNVOCKAHQWZEWAY
LENWYSRFTXUKRRPAIYKW
MYUYUQTQZSLGXKUVAZHKL
QRMVRFELXFUWKTFQPEFPQ
VRMNUHRIWETBTSHTSKMK
ARFGWKBWXWNSDJOUFRHD
ATJPEVXDESJFHTVCTLRL
ERGWSPKGRITVPHVIJE
GYGVSDDGNSPBYTCTVZD
EGNIEYEFWPEBMTAIQWSP
TYFLKLCAPPIEVPCIRFDA
KWFOFPWGOEERYREWEMSHG
GBKXTMJMMIMCFVYWEVP
EBIWFYRKSIVSHYIYPTNS
PSSLPSMGLGJM

```

This is **Deeves Hall**. This branch represents Rehearsal Room 1 at Deeves Hall where the first line up of Deep Purple finally came together.

Hiding in plain sight: All 4 rehearsal venues are represented on this hub, and the clues on this branch point generally to the South Mimms/North of Borehamwood area rather than just Deeves Hall / Ridge. Deeves Hall is linked to the 36 photo page by Sugarlump, Orpheus & Roundabout (and Concrete God) which were all potential names for Deep Purple suggested at Deeves Hall. The other three rehearsal places lead to virtual sites which is a clue that, since this one doesn't, it leads to the actual treasure site.

Photo		Explanation
Shenley Training Ground	S	Arsenal's training ground at Shenley, opened in 1999. There is a minor link to Shenley Wood (2011 ATH) and a cross reference to the 1992 ATH (above). Also, I think Dave Harding still has an irrationally strong loathing of Arsenal FC so having two Arsenal answers amused us
ADMTH	A	The Avengers Dead Man's Treasure Hunt (ADMTH) has been running almost as long as our ATH. Every summer Avengers fans meet for a fiendish treasure hunt and visiting film locations, frequently in the heart of 'Avengerland' near Borehamwood
Mosquito 1	M	This distinctive yellow plane is the prototype DeHavilland Mosquito at the DeHavilland Aircraft Heritage Centre, formerly the Mosquito Aircraft Museum
Strangeways Equestrian Centre	S	Somewhere between Borehamwood and Ridge on Rowley Lane. Strangeways is possibly the source of some of the horses and riders we have seen in the area on successive visits. There used to be a website for the equestrian centre but a quick check found that this had disappeared and only their Facebook site remained, hence a quick urgent patch to the puzzle pages had to be had just before launch.# Strangeways is also a track on DP Studio Album 12 (House of Blue Light)
Queen Wilhelmina of the Netherlands	W	Evacuated to a country home near South Mimms in WW2 which was bombed (by the Germans)

As per Phil's description in the Setter's Notes, the decryption of Cyphertext with the Key Text gives the Plaintext directions:

PARKCARATPUBONEHUNDREDANDFIVEPWALKTOWARDSREHEARSALHALLTAKETOMERSGATEONLEFTQAHOWMANYDAYSBETWEENSOFIASBIRTHDAYANDFIRSTDATEONGATE WALKPASTTHEBUILDINGANDTURNRIGHTEXITONLEFTTAKEPATHUNDERWIRESPASSTHEFARMONYOURLEFTQBWHATISLEFTOFZEROZEROEIGHTFIVEHWALKTOWARDTHEPOLE STARYOUSHOULDSEE ELEPHANTSANDWARRIORONYOURRIGHTQCWHATNATIONALITYISTHESOLDIERTURNRIGHTTOWARDSTHENoiseFOLLOWTHEABANDONPATHWALKTOW ARDSOBELISKQDNAMETHEPOLYHEDRONTHROUGHTHEKISSINGGATETOWARDSAGOODSTARGAZINGPATCHBETWEENTHETWOGATESQEWHENDIDPHILANDBRIANFIRSTVISITA NDWHATEVENTDIDTHEYCOMMEMORATEINAPRILLOOKFORTHEYELLOWLONYOURLEFT

With whitespace, punctuation and some clarifying notes, [Following the Pseudodates direction to 'Start at first rehearsal hall'] this becomes:

Park car at pub one hundred and five P [105p and 252d = a Guinea – the pub is the Old Guinea]. Walk towards rehearsal hall [i.e. Deeves Hall]. Take Tomers Gate on left.
Q (A) how many days between Sofia's birthday and first date on gate?

(A) Sofia's Birthday 4 October (1959), Gate date 8 October (1993) so **4 days** – also accepted is 12,423 or 12,424 days.

It is 12,423 days from the start date to the end date, but not including the end date

Walk past the building [St Margaret's Church] and turn right exit on left.

[Take footpath Route 21 across fields to pass Ravenscroft Farm with telegraph pole on left]

Take path under wires. Pass the far on your left.

Q (B) what is left of zero zero eight five H [0085H]?

(B) **L2070 on telegraph pole plate**

Walk toward the pole star [*i.e.* North]. You should see elephants and warrior on your right [*at Rabley Park*]

Q (C) what nationality is the soldier?

(C) Copy of a **Chinese terracotta warrior**

Turn right towards the noise [*the M25*]. Follow the abandon path [*Path 16. Deep Purple's 16th Studio Album was 'Abandon'*] Walk towards obelisk

Q (D) Name the polyhedron?

(D) Obelisk is topped with a **cubeoctahedron (also accept tetrakaidecahedron or tetradecahedron)** – a 14 sided polyhedron

Through the kissing gate, towards a good stargazing patch [*small green observatory in the farm opposite the bridge – nominally Chris Sellers' parents house*]

Between the two gates [*these are the two gates over the footbridge crossing the stream called Catherine Bourne aka 'Kate'*]

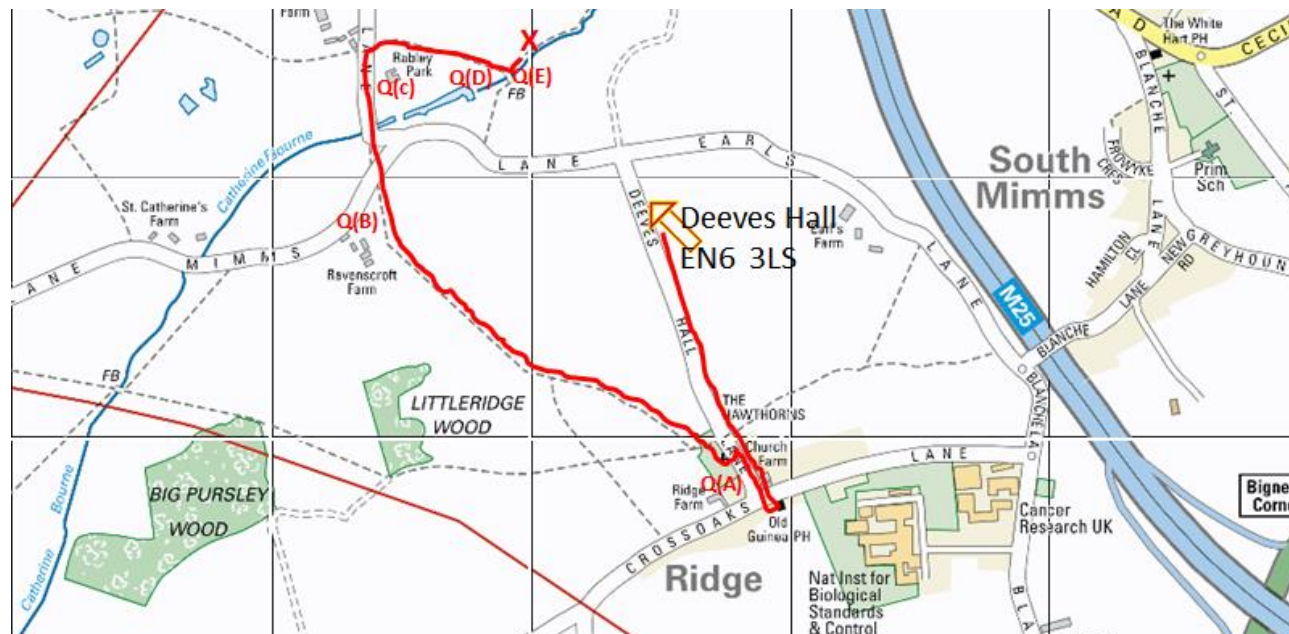
Q (E) When did Phil and Brian first visit and what event did they commemorate in April? [*this refers to a geocache box under the footbridge adjacent to hiding place*]

(E) Inside the geocache box under the footbridge there is a notepad. First visit **19/11/11** "looking for a place to hide a box", 06/04/13 visit commemorated **the California Jam (39th Anniversary)** - Cal Jam was held on 6/4/74 and was Deep Purple's biggest concert.

Look for the yellow L on your left

[*the box is hidden in a hollow in a tree where the yellow L is painted – visible from the other side of 'Kate' if teams overshoot and go through both footbridge gates*]

The small green observatory in the field opposite the treasure site was dismantled and removed on 2nd & 3rd January 2014

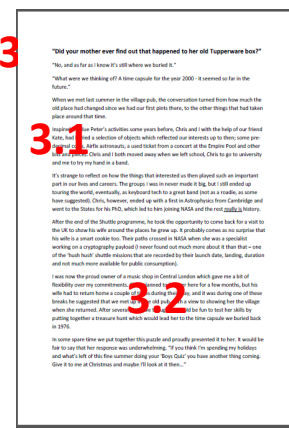
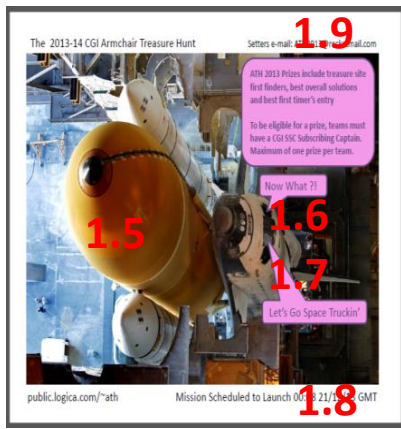


Additional questions (A to E) were embedded in the directions to encourage hunters to follow the described route and remain observant.

They also served to confirm that hunters were on the right route.

The following pages contain the high level marking schema for the ATH.

There is a separate detailed spreadsheet which provides the breakdown of marks and even more detail if you think you need it after these 42 pages of Answers and Solutions



ATH 2013 Marking Schema

4.2

MERRY XMAS AND HAPPY NEW YEAR.
WORKING AT QUIZ, BASH THOSE RED FISH - FOOLING THEN MISLEAD.
UTILISATIONS OF CUT THEN JOIN - THEN VULNERABLE CODES TOTTER.



N	O	I	S	R	E
V	T	N	E	C	E
R	T	S	O	M	S
M	U	B	L	A	O
I	D	U	T	S	E
S	U	Y	L	N	O

5.37

ONLY USE STUDIO ALBUMS MOST RECENT VERSION

5.38

START AT FIRST REHEARSAL HALL

6.2

6.3

Album	World	Track	Duration	Artist
0551107	Space	1	3:55	S
0602007	Trust	1	3:55	A
1001002	Responsible	1	3:55	T
1102008	The	1	3:55	R
1203009	Address	1	3:55	A
1304010	To	1	3:55	F
1405011	Fortune	1	3:55	I
1506012	Right	1	3:55	R
1607013	Shades	1	3:55	S
1708014	The	1	3:55	T
1809015	Beep	1	3:55	R
1910016	Explosion	1	3:55	E
2011017	Has	1	3:55	H
2112018	Enough	1	3:55	A
2213019	Around	1	3:55	A
2314020	Rock	1	3:55	R
2415021	Soon	1	3:55	S
2516022	Alone	1	3:55	A
2617023	Lay	1	3:55	L
2718024	Happiness	1	3:55	H
2819025	Aid	1	3:55	A
2920026	Long	1	3:55	L
3021027	Lost	1	3:55	L

6.4

6

6.1

0601007
0602007
0603007
1102008
1103008
1104008
1105008
1106008
1107008
1108008
1109008
1110008
1111008
1112008
1113008
1114008
1115008
1116008
1117008
1118008
1119008
1120008
1121008
1122008
1123008
1124008
1125008
1126008
1127008
1128008
1129008
1130008
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1200008

7.27 www.snipurl.com/gathrocket



8

8.1-8.4	East	Peace		
8.5-8.8	Rastell	Ascent	Erysimum	Heisberg
	Saule	Gunderam	Napoleon	Edinburgh
	Oslo	Teushima	Impossibility	Inkerman

8.9 8.10

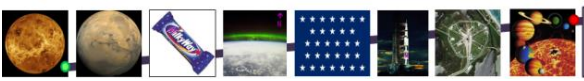
Standard Only Connect rules
1 point per group of 4
1 point for identifying group connection
2 bonus points for getting all 8
Plus 'IGNORE WHITESPACE' anagram

LEYKACOMDMDIPOVIRE
TVWQEVCHDAGOTPWLCR
FEEVWVWVWVWVWVWVWV
ASMGVETTRIXAHOVYAP
TUCFJOCATWSSSPEMDS
QWVWQVWQVWQVWQVWQV
WVWQVWQVWQVWQVWQV
SUVQVWQVWQVWQVWQV
MGTZMGTVWQVWQVWQV
IYVWQVWQVWQVWQVWQV
MZXMGTVWQVWQVWQVWQV
CXYSVEPKLLSVQVWQV
LXTJARGOFVWQVWQVWQV
FVWQVWQVWQVWQVWQV
DEFWVVOCHAWQVWQV
LEWVWQVWQVWQVWQV
MGTZMGTVWQVWQVWQV
QWVWQVWQVWQVWQV
VWQVWQVWQVWQVWQV
ARFGVWQVWQVWQVWQV
ARFGVWQVWQVWQVWQV
ERGVWQVWQVWQVWQV
GUVWQVWQVWQVWQV
EGVWQVWQVWQVWQV
TFLVWQVWQVWQVWQV
MVFOWQVWQVWQVWQV
GKVMWQVWQVWQVWQV
EFTVWQVWQVWQVWQV
EFTVWQVWQVWQVWQV

samsw



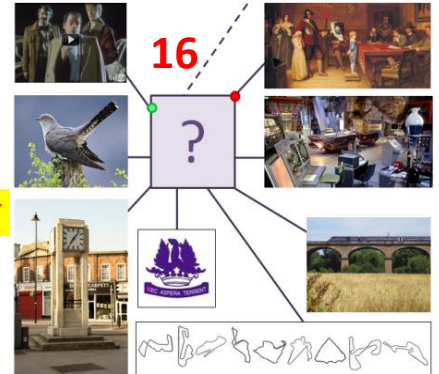
? 18



vmbsms



? 17

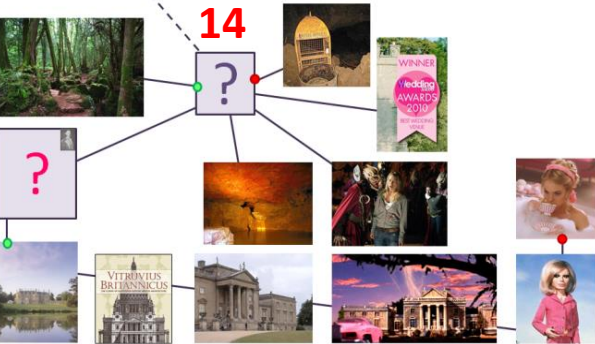


ocnswby

? 16

ccscem

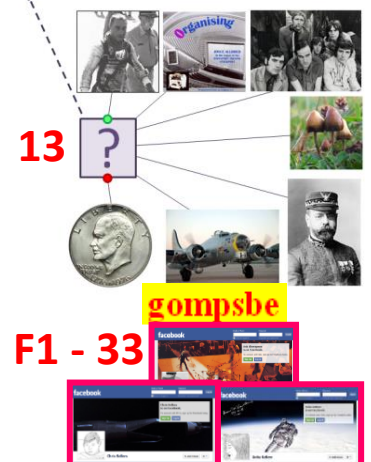
? 15



pmedwi

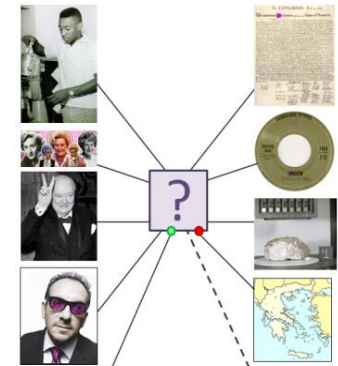
? 14

? 13



gompse

F1 - 33



beespdng

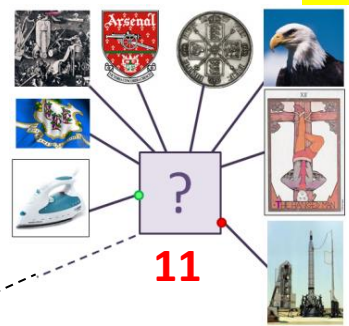
? 12



prddparsr



? 11



icdadetb



10



tmtagt



? 9 ?



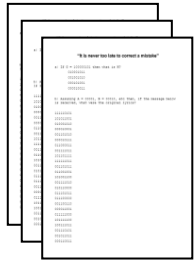
phchgrt



ATH 2013

Hamming Code:
Space Truckin
Definitive Lyrics
used as One Time Pad
Encryption Key

Decryption Key



One Time Pad
Cyphertext

```
LEYKFCOMDZMELYKNGOG
IOWVDDNEFWHRNELIAWWH
NWEKGYIVLONZEZEYELJZN
OZFNFWHISIXYDPUPPQEQ
WAYDVCSEDTCPWYOEHIT
GCOHPRHHQZMKDJFVWPL
AUXDIWEJBOXPXVFGPBUR
NWEKGYIVLONZEZEYELJZN
HMYVGLFWXVYNOXURRFW
WAYDVCSEDTCPWYOEHIT
LDVTTADIWBLTCDIMJEL
HLVPZICNXDBMMZVMASY
AEDNXEYAWGRKXZAOJWL
ZESYADIGARJLWKWNOTB
ZSNDQKFKZBEEFIOMGVYG
GZJHVVPGGXTNSLRZIHGO
BJMKXOTRHYGRPHVVLXAG
QREXOERESATUHPTLEUVN
YOMAMOIYEFKBTPEVODB
SIHKIUEDXCRBTZINEZA
BX
```

Encrypted Directions

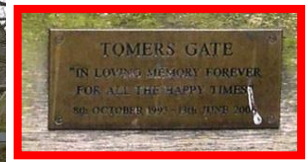
One Time Pad
Plaintext

```
THE FRIENDS OF THE HERTFORDSHIRE WAY
DONATED AND INSTALLED THIS MISSING GATE
2001
```

19

Decrypted Directions

- 20** **PLAINTEXT DIRECTIONS**
Park car at pub One Hundred and Five P
Walk towards rehearsal hall
Take Tomers Gate on left
Q1 HOW MANY DAYS BETWEEN SOFIA'S BIRTHDAY AND FIRST DATE ON GATE ?
20.1 (A1 Sofia Birthday 4 Oct, Gate 8 October 1993 so **4 days**)
Walk past the building and turn right
Exit on left
Take path under wires
Pass the farm on your left
Q2 WHAT IS LEFT OF 0085H ?
(A2 **L2070** on telegraph pole plate)
Walk toward the pole star
You should see elephants and warrior on your right
20.2 Q3 WHAT NATIONALITY IS THE SOLDIER ?
(A3 Copy of a **Chinese** terracotta warrior)
Turn right towards the noise
Follow the abandoned path
20.3 Walk towards obelisk
Q4 NAME THE POLYHEDRON ?
(A4 Obelisk is topped with a cuboctahedron / **tetrakaidecahedron / tetradecahedron** – 14 sided polyhedron)
Through the kissing gate
Towards a good stargazing patch
Between the two gates
Q5 WHEN DID PHIL AND BRIAN FIRST VISIT AND WHAT EVENT DID THEY COMMEMORATE IN APRIL ?
(A5 Assumes they find the geocache box under the bridge. First visit **19/11/11** "looking for a place to hide a box"
20.4 06/04/13 visit commemorated the **California Jam** - Cal Jam was held on 6/4/74)
20.5 Look for the yellow L on your left
Finders' Ticket
Artefacts from 'Tupperware' introduction
Deep Purple Ticket, Saturn V, Airfix Astronauts
Blue Peter Competition Winners Badge
20.6 1959 Sovereign and (rare) Scottish Shilling (i.e. a guinea)



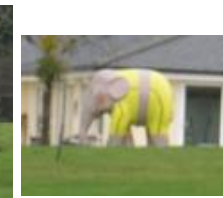
20.1



20.2



20.3



20.4



20.5



20.6

