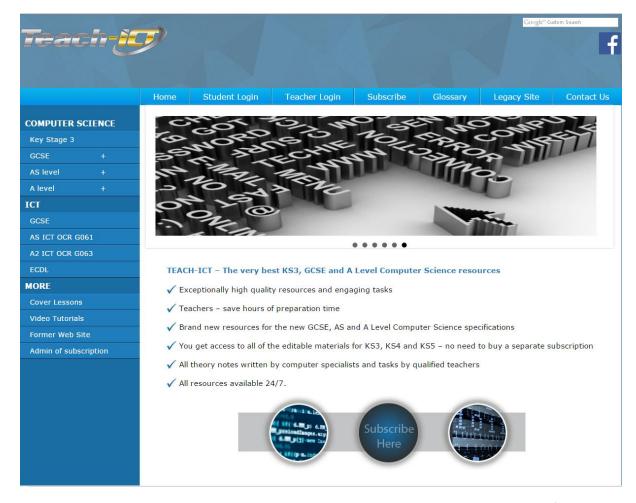
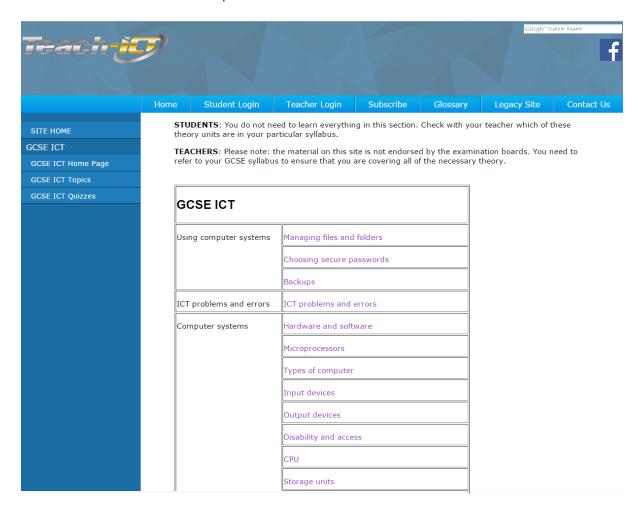
Research the Problem: Teach ICT learning resource

This an educational website that focuses on teaching computing, computer science and ICT at all pre-university levels.

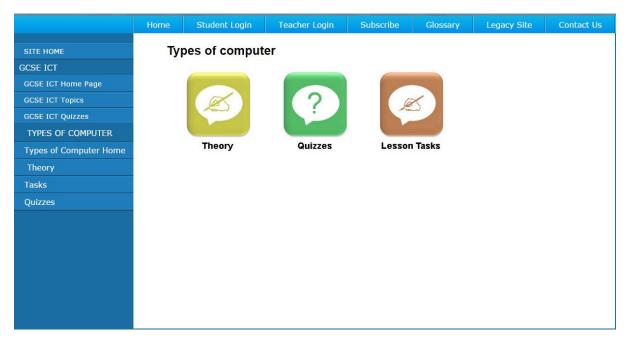


An alternative solution would be to make an online educational resource to help student feel more prepared before GCSE as a method of increasing the interest in the sciences, as students should have no reason to shy away. Of course, this does not reflect my current solution of a 2D platformer with science themes, as I decided to focus on my client's point of fun over education.

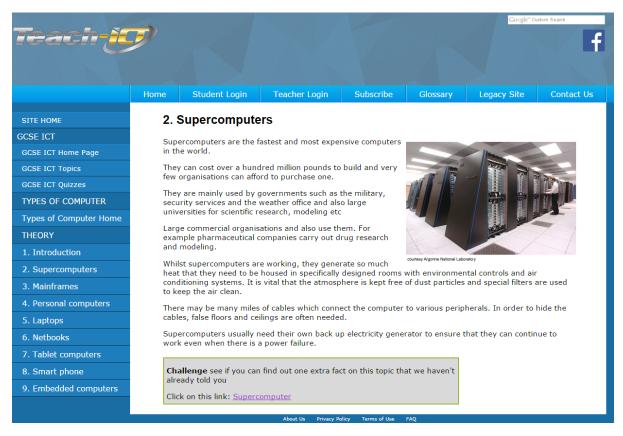
Even though it doesn't fulfil my client's wish for a fun resource that isn't openly education, as it is definitely a solution to a similar problem, I find reason to deconstruct it and see key features. In the image above, you can see we'll be focusing on GCSE ICT (while the context may not be of interest, the methods they use are).



Within the GCSE level, while the aesthetic design is rather low, the site does a very good job of navigation. As the site offers materials from KS3 to KS5, this is very important, the collapsible side bars help you get to the subject you need at the level you a studying. The figure above is also very pleasing. This page shows all the topics in GCSE ICT, each one then has its components shown with links to the task. Being able to break things down not only will help the brain store the information logically (this type of breaking down the whole problem can be linked back to the computational method). This would help with revision and making a study plan. This could also be implemented for students before GCSE to get a taste, as having each part broken down into tiny parts would make the whole subject a lot less daunting, although personally, I would have made the table collapsible so you didn't have to scroll past every topic to get to the bottom of the page.

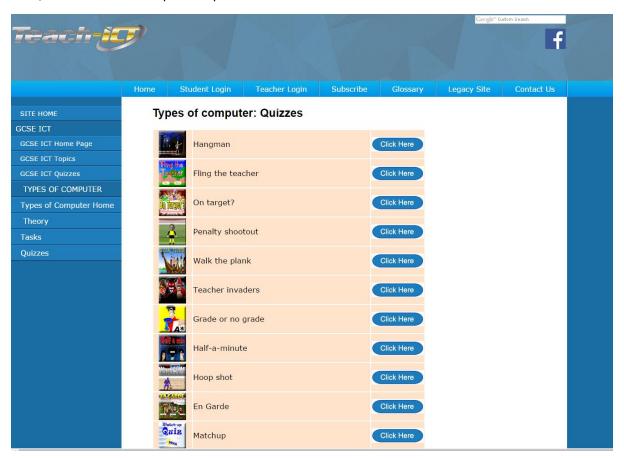


When you pick a topic, you are met with these three options; theory, quizzes and lesson tasks. Once again your options are clearly shown, each on accompanied with a small image.

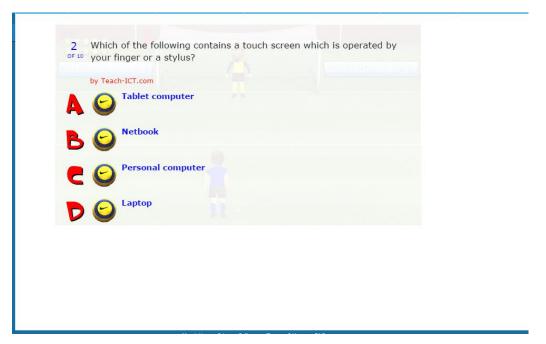


Going with the first option, theory. When clicking on this option you are met with pages of information, spilt up into 'slides'. Each slide covers an aspect of the topic you are covering, and can be found by using the sidebar. Some of these slides are very text heavy- this is something I wish to avoid, this is not a fun way of learning, it is also not very interactive either. There is nothing useful I can take from this example

Skinners' Academy Centre Number: 10438 Next, we will look at the quizzes option:



This list consists of many interactive learning resources. These resources embody exactly what I was complaining about; I feel they cannot get the balance between game and education right, I will explain this in two examples:

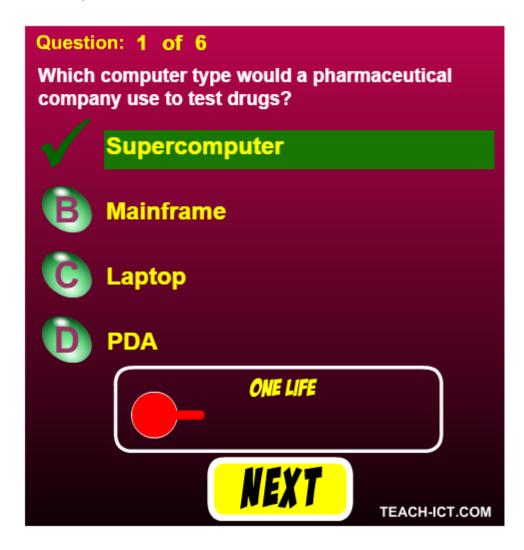


The first example is the quiz 'Penalty shootout', this resource consists of two parts. The first part is multiple choice questions (pictured above)- answering correctly will give the user a chance to shoot a penalty, moving on to a second stage of the game:



This next part has you click to shoot, using the rapidly shifting green area to show you the direction of your kick. This has very little user interaction, but as the user in controlling a situation and there is a very clear win objective, I would state that while boring, this is a game. I would argue that the problem behind this resources is that it is too much quiz with a husk of a game added at the end.

On the other hand, we have another resource- 'Breakout':



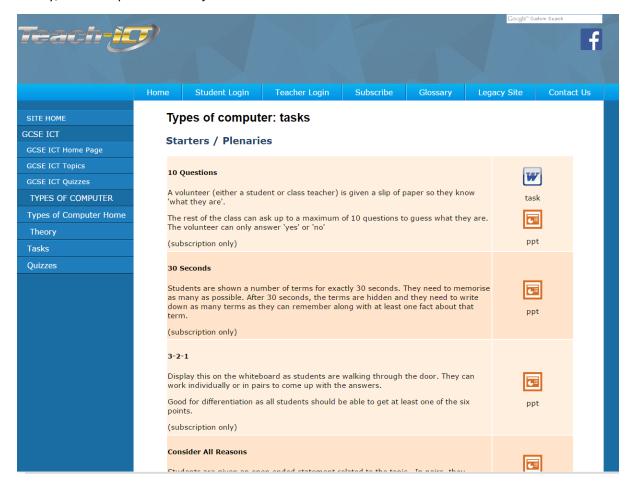
The resource starts off as a quiz, each question answered correctly give you a life. This is a very basic quiz, with a constant set up, meaning that if you get all the answers wrong, just refresh the page and input the correct choices in the order they showed you.



When all the questions are answered, you will be able to play a game of brick breaker. While I'm not sure if this is a full game of brick breaker (as the mechanics on the ball refreshing are not user friendly*) The duration of the game itself far surpasses the time you would spend on the quiz. This time I would argue that this resource is more game than educational, this is further proven by the inability of go back to the quiz after a game over- the creator knows that doing the quiz a second time is useless.

*Edit: After many attempts I did manage to clear a level, it just resets but keeps your score.

Finally, the last option on a subject is the lesson tasks:



This list consists of tasks that are intended for a teacher to use as a starter or plenary. Upon further scrolling, there is also further tasks for the teacher to set as classwork or homework. Firstly, as I am not a teacher with a paid subscription to this site, I cannot access any of these tasks to pass judgement. Secondly, my target audience is GCSE students, therefore anything to do with the teacher themselves is of no concern to me. Finally, this is actual school work- the thing I am trying to avoid in my solution. These all come together to show that this section is of no interest to me.

Taking what I can from Teach ICT (I was never expecting a lot), firstly, I see that having a clear structure is important to avoid overwhelming students. The quiz section of Teach ICT has also provided evidence to my point that it is almost impossible to have a good balance between education and entertainment- therefore as one person on a deadline, I will not try to balance the two- giving up education for an enjoyable promotional solution to the problem.