Key Stage 3 Computing

There are two topics for you to explore. The tasks for each topic are divided into different levels so you can choose activities that match your knowledge and skills.

Beginner
Intermediate
Advanced
Expert

To complete each task, you will need to conduct research on the Internet. Some good websites to use are:

- https://www.bbc.co.uk/bitesize/levels/z4kw2hv – Use the Computer Science and ICT subject links

- http://teach-ict.com/2016/ks3/ks3_home.html – You may need to create an account to access the free resources

Topic 1 – PC Basics

Beginner

- ✓ Find out about 3 input devices and 3 output devices that you have not looked at in the lesson and note them down.

- ✓ Design a new input device that could be launched at Christmas.

Intermediate

- ✓ Design an output device describing all the features that it will have and where you would sell it.

- ✓ Design a health and safety poster that would be displayed in all of the computer class rooms explaining to children what dangers might occur.

Advanced

- ✓ Draw out a health and safety poster that can be displayed in every IT classroom but add messages on to it using binary with a simple key at the bottom.

- ✓ Write out a binary message that describes the difference between an input and an output device. Make sure it can be solved by someone in your class.

Expert

- ✓ Draw out 2 designs of computer networks for Ingleby Manor School. Describe which type of network you would think would work best and why.

- ✓ Research different Internet providers. Pick 3 of these providers and describe what wifi options they offer and how much the tariffs are for each package. Then make a final decision with reasons of why you would use this provider.

Topic 2 – Web Awareness

Beginner

- List all the things you think a mobile phone can do and describe the 3 things you use the most.

- Design a new mobile phone and list the features that it has.

Intermediate

- Research a mobile phone that is currently on the market. Find a picture of the phone and describe all the features that it has. Make sure you find out the tariffs for the phone too.

- Find out 5 dangers of using the Internet and give tips of how those dangers can be avoided. You can design a poster showing these.

Advanced

- Find a story online about someone who has got into danger by using a social networking site. Write a newspaper report describing what happened and how readers can avoid the same happening again.

- Produce a leaflet to distribute to parents of a local primary school giving information about Facebook and mobile phones. In the leaflet, describe what they are, what they can be used for, images relating to the two, how to stay safe using them and what the advantages could be of using them.

Expert

- Design a quiz that can be given to primary students in Year 6 asking about how they use the Internet. Your aim is to find out how often they use sites, why they use them, if they have had any problems, if they see any good points about being on a social networking site and any other important information you may need.

- Design a website template that could be used to launch a new social media website. You need to think of a new name for the site and a layout that people of your age would enjoy using.