



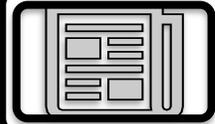
Computing Challenges



Complete at least three challenges as part of your preparation for Year 7 at Cirencester Deer Park School. Keep a record of your progress.



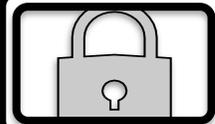
Find out what an 'embedded system' is and make a list of items in your house that are embedded systems.



Find a piece of fake news on the internet. How do you know it's fake?



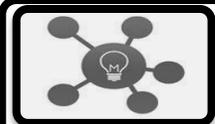
Why is a keyboard called a QWERTY keyboard? What was the first mouse made out of?



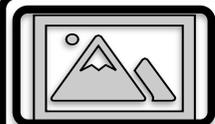
Find what a pigpen cipher is and then write an encrypted message using it. What other ciphers could you use?



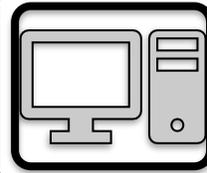
Research what Copyright is and find some examples of what could be copyrighted.



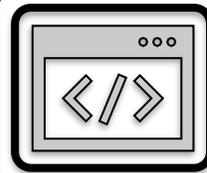
Create a mind map of things you know about Computers.



Find a picture that has been altered using software. It may have been 'photoshopped'



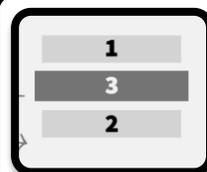
Use a website like www.currys.co.uk to find the most expensive, cheapest and a mid priced laptop. Make a table and compare key features such as CPU, RAM, Storage, Screen size etc.



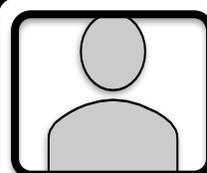
Go to <https://hourofcode.com/uk/learn> and have a go at one of the activities. Flappy bird, Minecraft and Moana are all fun ones to have a go at.



Create a detailed set of instructions for a robot to follow. It could be brushing your teeth or making a ham sandwich. Be creative and remember robots are stupid so you need to tell it everything!



Rearrange these data sizes in the correct order from smallest to largest:
1
3
2
Megabyte, Gigabyte, Bit, Kilobyte, Nibble, Petabyte, Terabyte



Who is Sir Tim Berners Lee and why is he famous? Who was Grace Hopper and what did she find in her computer that helped define the term 'debugging' in programming?