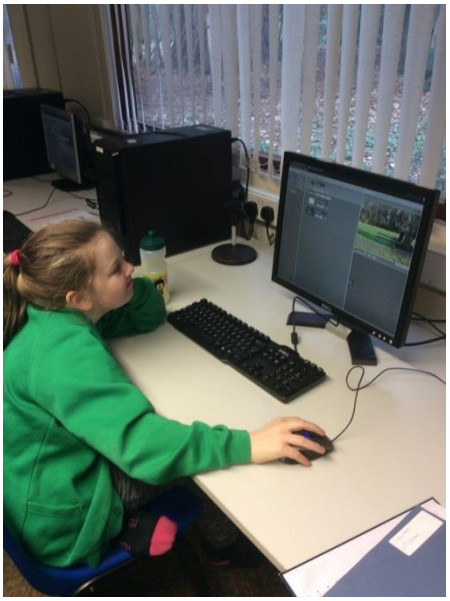
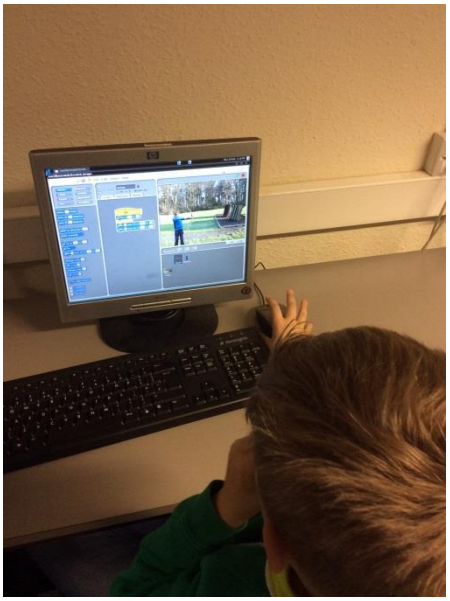
ICT/Science Winmarleigh Trip

On Monday 20th February, Year 4 and 5 went to Winmarleigh Hall for an ICT/Science themed trip.

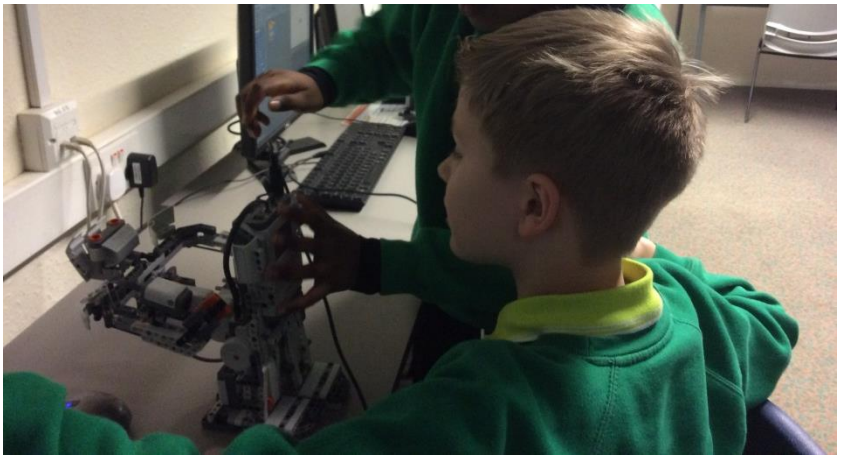
ICT Workshops
These workshops worked on developing children's understanding of computer programming. During both the workshops the children learnt about input and output commands and debugging scripts.

The first workshop allowed the children to use a programme called Scratch. They got to use a variety of different scripts to control the sprite on the screen and when their commands weren't quite right they had to use debugging skills to fix the problem.





The second workshop used the programme Enchanting which allowed them to control robots.
The children had to input different commands into the computer programme and then upload this to the Robot through a USB lead. They managed to get the robots to spin around, play a note when it saw a specific colour (using colour sensors) and even play Twinkle Twinkle Little Star!



Science Workshops

These workshops worked on developing the children's understanding of forces and they conducted two different experiments.

The first workshop focussed on hot air balloons. The children learnt that these rise because the hot air inside the balloon is less dense than cold air around it. Believe it or not, the first hot air balloon flight was in 1783 in Versailles (Paris) and had 3 animals in it! Once children had developed their understanding their challenge was to create a hot air balloon that would stay in the air the longest.

The second workshop was all about rockets. They consolidated their knowledge and developed this further by looking at Isaac Newton and aerodynamics. They discovered that the first rocket, which was called an aeolipile, was invented by Hero of Alexandria in 100BC (Ancient Greece) Using their knowledge, the children had to design a rocket that would travel the highest. They got to choose their container (big or small), designed it so it was aerodynamic and decided how much water to put in it. When it came to launch time they then had to forecast the height the rocket would reach using a clinometer gun.

The children were very well behaved and the instructors were impressed at how quickly the children grasped the skills taught.