Science Week at Moorlands

November 2017

The whole school enjoyed taking part in a special science themed week this week. The week started with a bang by way of a special assembly by mad scientist Turbo Tom! There will be an after school club run by Mad Science starting after Christmas.

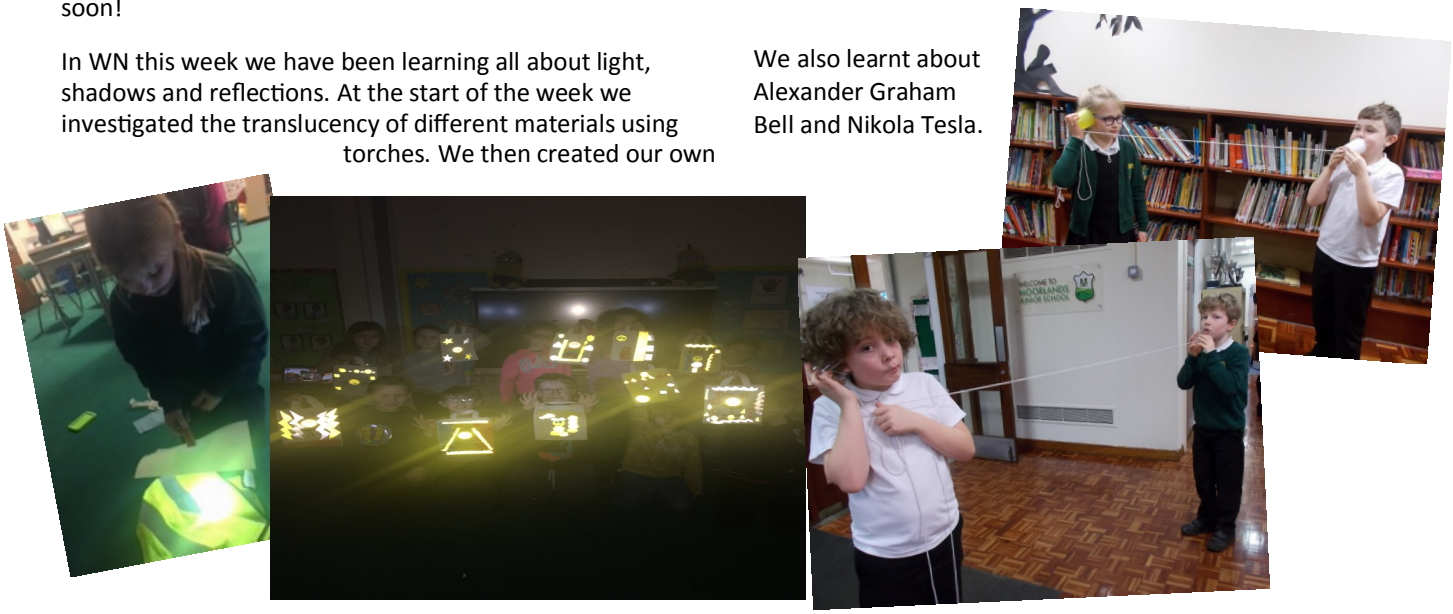
This week year 3 have focused on forces, magnets and light; we have investigated what materials are magnetic and compared how things move on different surfaces using toy cars. After this we found out about magnetic attraction and repulsion using a strong pair of magnets. We also investigated light, examining how shadows are formed using torches to help, we looked at light sources, opaque, transparent and translucent materials and the shadows they form. Furthermore, we learnt about how light travels in straight lines and what causes refraction. A great time was had by all and Year 3 are keen to have another science week again soon!

In WN this week we have been learning all about light, shadows and reflections. At the start of the week we investigated the translucency of different materials using torches. We then created our own shadow puppet shows that we performed for our friends in class before ending our week designing and making bags using reflective and non reflective materials.

Year 4 have been learning about sound and electricity. We looked at how sounds are made and created our own musical instruments from simple household items. We have also investigated the movement of sound waves and created string telephones to talk over long distances. We finished with an investigation to test different materials to find the best one for sound proofing.

We also learnt about simple electrical circuits and roles of different components. We challenged ourselves to work out how to construct a shaky hand game, using a coat hanger, that lit up a bulb or buzzer when the handle touched the metal track.

We also learnt about Alexander Graham Bell and Nikola Tesla.



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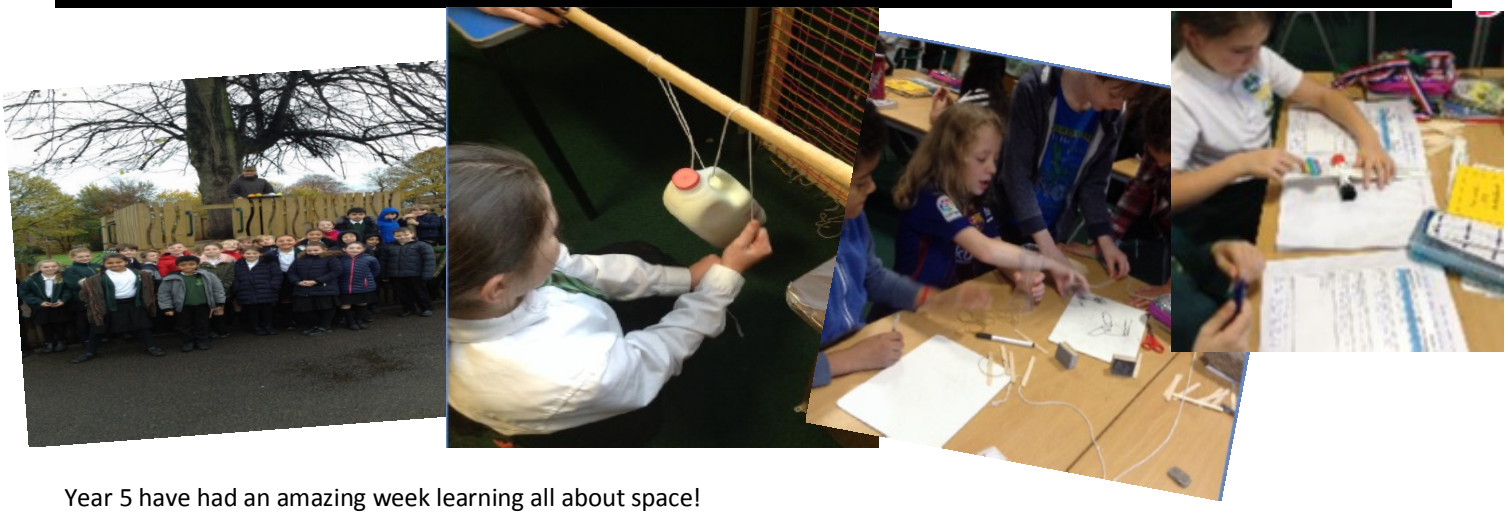

Year 5 have had an amazing week learning all about space! We have been undertaking astronaut training to apply for a job for NASA.

We've been asking questions about and investigating our solar system, then recreating an image of it in our books. We've learnt how ideas about the solar system developed from the geocentric to the heliocentric model. On Tuesday, Mrs Crewe climbed up one of our treehouses and dropped objects of varying weights simultaneously so we could observe the effect of gravity on them. We've had great fun training like an astronaut, doing Tim Peake's demanding "Peake Lift Off" sequence of exercises before learning about life on the International Space Station.

We have also learnt about forces: air resistance, water resistance and how pulleys and levers work. We related this to our space topic and made our own robotic arms, as well as investigated how forces affect astronauts in space. After more space training, the recruits finally applied to NASA by writing a letter, stating their skills and how their learning this week has made them the perfect candidate to be recruited as future astronauts.

Year 6 children have really enjoyed Science Week. We have had a wonderful week learning about light and electricity. We started to investigate light, shadows and distance.

Children then started to look at the link between light, angles and the eye, and how the eye interprets objects. Children learnt about the purpose of periscopes. This led to children building their own periscopes, with some children experimenting around school with their finished creations. Children have been impressive in terms of writing up their investigations and showing excellent skills when writing instructions of how to make a periscope. In addition, children have written detailed biographies about scientists.

Moving onto electricity, children took ownership of their learning and began creating electrical circuits to find out the effects of more devices (in a circuit). Furthermore, children have enjoyed making their own buzzer game using the knowledge and skills learnt from this week.