



# TEAM BARTONS

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DREAM | BELIEVE | ACHIEVE



## STEM ENRICHMENT WEEK



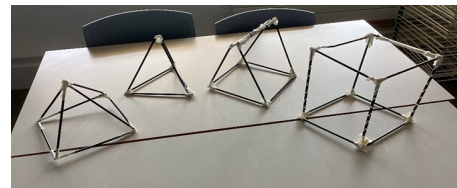
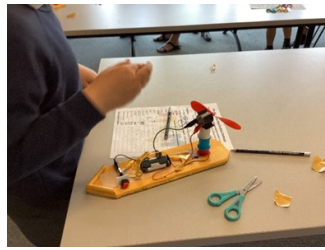
This week, at Bartons, all of the children have been taking part in a range of activities designed to inspire an interest in STEM subjects for the future (Science, Technology, Engineering and Mathematics). A variety of exciting activities were planned and we had lots of visitors in to run workshops to enrich and deepen learning and understanding.

The children in Elm, Beech and Chestnut classes were investigating and designing different modes of transport. They took part in lots of fun and inspiring workshops linked to this learning; including a Lego based workshop which explored transport from the past, present and future. The children then used Lego to design and build a vehicle. Additionally, they learnt about buoyancy through another workshop where they created a working motor-powered boat. On Friday the children had a visit from T10 Automotive who explained to the children how the future of cars is changing to be more environmentally friendly.

The children in Hazel, Ash and Lime classes learnt about climate change. They explored floodplains and designed and built flood-proof model houses. They also investigated the green-house effect and learnt about the melting polar ice caps. The week also included a visit from Dr Peter Martin who taught the children all about structures from an engineering perspective.

Cedar class focused on motorsports and rocket science; where they designed and built their own cars and rockets. They learnt about the science behind race-car designs and how some of the principals also link to rocket design. They spent the week using a variety of tools and materials to plan and make their own working models. They even used their computing skills to code a Microbit message on the back of their cars. The week also included a visit to The Regis School where the children took part in a rocket STEM workshop in the product design rooms. This was a really inspiring opportunity for the children to experience one of the ways in which STEM learning is delivered in secondary schools.

The week has been full of exciting learning and visitors and judging by the feedback in assembly today, we have inspired many of the children to want to pursue a career in STEM. It has been a brilliant week. Here are some photos:



Children time travelled, looking at different vehicles. They designed and created their own past and futuristic vehicle.

Year 4 enjoyed exploring, designing and made strong frame and shell structures for our flood proof houses. We enjoyed being engineers!



Years 3, 4 & 5 reused plastic bottles to create a greenhouse for the plants in our garden. It was tricky to attach the supports so we have had to work together to use engineering skills to do this.

Year 6 created prototypes of their race-car designs using Tech-card. The next stage was to re-design and build their cars. They did this using a variety of tools and materials. The designs show that the groups all had different things they wanted to focus on. Some groups focused on aerodynamics, some on stability.