



Primary Engineer Leaders Award and Science Fair.

07 February 2017

Dear Parents and Carers,

We are excited to announce that we will be taking part in the Primary Engineers Leaders Award 2017 Competition during this academic year.

The Leaders Award will be challenging Primary and Secondary pupils to research engineering, interview inspiring engineers and interpret the question "If you were an engineer – what would you do?"

The award is a fantastic opportunity to engage our pupils with real engineers who will convey the importance of Science, Technology, Engineering and Mathematics (STEM) in their daily working lives. Pupils will be able to let their creativity run free to come up with inventions and ideas. Last year, over 10,000 pupils, from across the country, took part in the award and hundreds of shortlisted entries were displayed at public exhibitions in multiple venues, which were visited by hundreds of people. The overall winning entry in 2016 was given to engineering students at Southampton University, who completed the design to the specifications of the designer.

Our STEM day has helped the children to begin preparation for their entry. We have discussed together the possible problems our young engineers could try to overcome and worked through an example together. Today, your child has identified a problem either within the local community or the wider world, that they would like to overcome. Their homework is to design something to help overcome the issue.

In Term 4, the children will also have the opportunity to meet with an engineer – they will be able to ask the engineer questions about their role and the work they do. In preparation for this, each child will need to think of three questions they would like to ask.

To help you support your child with their homework, here is some guidance:

- Look on the internet with your child and research engineering. Encourage your child to think about questions they would like to ask to find out more about what an engineer does and what problems they have to overcome.
- Entries for the Primary Engineer Leaders Award should be on a piece of paper no larger than A3. They should draw a diagram of their invention in the centre of the page and use labels and annotations to describe how it will work.
- It is important that entries are well presented and spelling is accurate.
- Please note all entries to the competition will be viewed but the award will not go to any designs that involve a magical element.
- If your child wishes to make a prototype of their invention, this would be fantastic. We can add photographs to their entry before we send it off.

All children should complete the project as their homework and return it to school on Tuesday 21st February. All children will be sent home with A3 plain paper to complete their design. I would recommend that planning is completed prior to a final design is being created for submission to the competition.



In Term 4, we will host a Science Fair. At this event, you will be able to view the designs of the children at Brookfield Junior School and find out what we have been up to on our STEM day. There will be representatives from each class in the hall to talk through the activity they completed and the inventions they designed to overcome their problems. Please note - this may not be your child.

The Science Fair will be on display on Thursday 23rd February in our school hall. We would like to take this opportunity to invite you in to share the success and hard work of our pupils. The exhibition will be open to view from 9am to 10am and 2.30 to 3.10pm. Please feel free to turn up at a convenient time – prior notice is not necessary.

Thank you in advance for your support with your child's entry to the competition. I look forward to seeing all the wonderful inventions designed by the children.

Yours Sincerely

Miss H Prince
Science Leader

