



Next half term our main whole school learning focus will be STEM (Science, Technology, Engineering and Maths) which coincides with celebrating national British Science Week. As part of this we are planning an exciting STEM Fortnight from Monday 2<sup>nd</sup> March and have planned an exciting array of STEM activities across the fortnight which will culminate in our STEM FAIR on Friday 13<sup>th</sup> March.

Our **STEM Fair** will be an opportunity for families to join us to share the learning experiences around STEM.

Preparing for the STEM Fair will form part of the children's homework for the four weeks before the Fair as detailed overleaf. (This information will also come home in homework books.)

To give a good amount of time to prepare for the fair the first homework is being set for over the half term, however, completed STEM Fair projects ***should not be brought in until the week beginning Mon 9<sup>th</sup> March*** ready for the fair at the end of that week.

We are requesting that children work with people at home to research and then create something to share at the STEM Fair, last year this was a huge success and the engagement from all families was brilliant. Don't forget you can make something as a family group if there are siblings across classes or children can choose to make their own projects individually. Please note: Caterpillar children will not be involved in displaying anything at the fair but will be visiting to see the projects made by the children from Reception to Year 4.

This year we are theming our STEM Fortnight and so would like projects to reflect this please. Our theme is ***'Our Environment'***.

There is lots of information about STEM Fair projects online. Some good sites linked to the theme of eco and environment are listed below:

<https://populationeducation.org/environmental-science-fair-projects-30-eco-friendly-ideas/>

<http://www.sciencefairadventure.com/EnvironmentalScience.aspx>

The details for the focus each week in developing each project for the fair, is listed overleaf. *Please* speak to a member of staff if you need any further support, guidance or equipment to help you.

We look forward to seeing what project you come up with on Friday 13<sup>th</sup> March.

**Main Aim: STEM Fair Project for Friday 13<sup>th</sup> March (can be brought in from Mon 9<sup>th</sup> March):**

*Create a project that demonstrates learning about an aspect of Science, Technology, Engineering or Maths that links in some way to our environment, either looking after or caring for our environment or possibly to raise awareness of an issue around our environment.*

**❖ TASK 1 - HALF TERM STEM HOMEWORK**

Begin to discuss at home and research the different type of projects you could do. ***You don't need to start constructing your project yet though!***

**❖ TASK 2 – from Fri 28<sup>th</sup> Feb due in Wed 4<sup>th</sup> Mar - Plan your STEM Fair Project**

Use the planning sheets (provided in homework books from Fri 28<sup>th</sup>) plan your STEM project for the fair. In planning you will need to think about:

- *Is there a question you want to can answer using a Science, Technology, Engineering or Mathematical project? For example: [Can I show how the earth is protected from the sun's heat?](#)*

*In showing your planning you will need to show things like:*

- *What equipment/materials will you need?*
- *What will your project look like when it's finished?*
  - *How will you make it?*

(Y3/4 – should also carry out some background research to help write your information leaflet to go with your project at the fair.)

**❖ TASK 3 – from Fri 6<sup>th</sup> Mar due in Wed 9<sup>th</sup> Mar – Construct your STEM project to show at the Fair on Friday 13<sup>th</sup> March**

Your project may be something that has an element of experimentation that you can do during the fair such as, [Can I show what happens when water evaporates etc?](#)

***To go with your project, you could also:***

- Y1/2 - produce a poster to go with your project to explain and show what your project is about.
- Y3/4 - produce an information leaflet or flyer to explain what your project is, how it works and why you decided to do this.

Projects can be brought into school from Mon 2<sup>nd</sup> if they're done but due in no later than Wed 9<sup>th</sup> so we have time to share them in school before the fair itself on Friday 13<sup>th</sup>. Further details for parents regarding the Fair will follow nearer the time.

We hope you have fun and enjoy working on your projects!