

Dear Parents,

Over the next 6 weeks Year 4 will be following a unit of work called **Feel the Force** that focuses on forces.

The Big Idea

A force is a 'push' or a 'pull' or a combination of them. These pushes and pulls create movement and changes of speed or direction; they can also stop movement. We cannot actually see a force, but we can experience its effects or results. The greater the force, the greater effect it has. Forces act in opposition to one another. If one force is greater than another, an object will move in that direction. Forces include gravity, friction, magnetic and electrical forces. Forces can be measured in 'Newtons' (N) using a force meter. Newton devised three laws of motion which form the basis of theories of movement.

In Science, we'll be finding out:

- What forces are and where they come from
- What friction is and how we use friction
- How we can reduce or increase friction
- How to measure the strength of a force
- How magnets and magnetic forces work

In Technology, we'll be finding out:

- How to design and make a marble run
- How to add sounds, lights and control mechanisms to a structure

All of the work we are going to do has been specially written to help your child reach the learning goals. Children will be reading, researching, writing, illustrating, working on their own and working in groups. We will be checking to see how well your child has learned through particular activities and asking children to explain their work, perhaps to you.

We already know the interest you take in your child's work. If you can, please discuss with your child the work they have done as the term progresses and let them teach you. To help you with this, a **Knowledge Organiser** can be downloaded from the school website. www.wrotham-road.kent.sch.uk

Talk with your child about the Phoenix Challenge. Which activities has he/she already completed? Are there any activities that relate to this topic? Can you do any of the activities at home?

If your child has some work to research, please help them, but without actually doing the work. If you have the chance to further their interest in the ideas of this theme please take it, but your enthusiasm and interest is most important. If you have any comments or questions about your child's learning, please get in touch.

Mrs Evans and Miss Tan



WROTHAM ROAD PRIMARY SCHOOL

Opportunity, enjoyment and excellence for all

Phoenix Challenge – The Home/ School link.

For home learning this year, we are aiming to make a link between our Creative Curriculum and things that you can try at home. Following Department of Education guidelines, we have created **The Phoenix Challenge**. This is a list of 20 activities that link to the IPC topics your child will be studying this year. We will be doing many of them in class as part of our enrichment afternoons. Each child will keep a personal list and we will be giving awards to those who complete 15 or more.

Bring the results into school or share a photo – we look forward to seeing what you get up to.

YEAR 4		Phoenix Challenge		
CHALLENGE:		✓	Date	
1.	Play your own panpipes	<input type="checkbox"/>		
2.	Set a personal record in press ups and then beat it	<input type="checkbox"/>		
3.	Wear your own Egyptian headdress	<input type="checkbox"/>		
4.	Write in hieroglyphics	<input type="checkbox"/>		
5.	Take a journey by train	<input type="checkbox"/>		
6.	Make biscuits and package them	<input type="checkbox"/>		
7.	Build a marble run	<input type="checkbox"/>		
8.	Go pond dipping	<input type="checkbox"/>		
9.	Talk/ communicate with a friend in a different country	<input type="checkbox"/>		
10.	Film a video guide to the school	<input type="checkbox"/>		
11.	Make a volcano erupt	<input type="checkbox"/>		
12.	Compose an electronic sound picture	<input type="checkbox"/>		
13.	Make a pinhole camera	<input type="checkbox"/>		
14.	Choose objects to put in a time capsule	<input type="checkbox"/>		
15.	Learn to sew on a button	<input type="checkbox"/>		
16.	Take part in a treasure hunt	<input type="checkbox"/>		
17.	Watch a play or a dance production	<input type="checkbox"/>		
18.	Write and perform a poem/rap	<input type="checkbox"/>		
19.	Disassemble a redundant device	<input type="checkbox"/>		
20.	Build a model railway	<input type="checkbox"/>		