**Educational S.T.E.M Workshops**

***General Information***

The Kids Construction Company aims to make Lego Education® resources accessible to all primary schools in South Wales and the West through our in-school workshops.

Lego Education® resources are designed to assist children of all ages to learn through design, investigation and discussion. The educational benefits the resources can provide are exceptional however the initial purchase of the equipment is expensive. Our workshops have therefore been developed to provide a condensed but comprehensive overview of the activities available in order that all schools can have the opportunity to experience the educational benefits of these amazing resources at an affordable cost.

Working with your teachers within the structure of your school day, we will provide a Lego Education trained classroom coordinator together with all the necessary equipment to ensure your pupils are fully engaged throughout the sessions and come away having gained valuable exposure into the specific curriculum subject covered.

Within our workshops Lego Education resources are used to provide learning opportunities including:-

- thinking creatively;

- developing vocabulary and communications;

- developing an understanding of the principle and vocabulary of computer programming;

- finding answers and considering new possibilities ;

- brainstorming ideas;

- making fair tests and observing the effect;

- creating a 3D model from 2D instructions;

**Workshop 1 – Its not rocket science, but its just as cool!**

*1/2 day workshop*

*Age – Year 3-6*

This workshop focuses on physical science concepts. Through the use of the Lego Education Wedo software and construction materials students are guided through the process of building and programing a working model. During this process they will learn about pulleys and belts, experiment with the size of pulleys and crossing the belts. They will investigate the effect of different sized gears on their models and learn about levers, cams and patterns of movement.

This workshop develops various aspects of the curriculum including language, computing technology and maths whilst focusing on physical science and engineering.

**Workshop 2 - Lather, rinse, repeat!**

*1/2 day workshop*

*Age – Year 3-6*

How do you keep a computer programmer in the shower all day. Give them a bottle of shampoo which says “Lather, rinse, repeat”!

This workshop focuses on maths and computer programming. Students will discuss the purpose and use of algorithms and their application in computer programming together with mathematical principles such as estimating, timing, measuring and organising data. Through the use of Lego Education WeDo software and construction materials students will be guided through the process of building a model which they can then program to behave in specific ways. They will learn to control the powered motor, tilt and sensor blocks in order to control how and when their models move. They will devise tests and use the computer program to calculate results of the test.

This workshop develops various aspects of the curriculum including language, physical science whilst focusing on maths and computer technology.

***Tag Line 1***

Our workshops will enhance your students science, maths and technology learning by using the engaging and powerful Lego Education resources at an affordable price.

***Other information***

1 Full Day = 2 half day workshops

All for just £350 a day

We come to your school

Contact us now to reserve a date

[www.kidsconstruction.co.uk](http://www.kidsconstruction.co.uk)

[emma@kidsconstruction.co.uk](mailto:emma@kidsconstruction.co.uk)

07781 295650

Offer – Reserve your autumn term workshop before the end of this summer term and get 10% off. Quote EB102015