

<p>Rationale</p> <p>We decided to find out about how things are made and what is inside. We want to find out about how things work and how they are used by people. We were donated all sorts of televisions and radio and different pieces of equipment and took these apart to learn about what they were made of and to start to understand how they work.</p> <p>We looked at different materials and how these could be made into things. We wanted to see something made from scratch being shown all the way through the process from beginning to end.</p>		
<p>Creativity</p>	<p>Independence</p>	<p>Aspiration</p>
<p>We wanted to find out how things work and then have a go at making something for ourselves. We wanted to challenge ourselves to use some materials which we had never worked with before.</p>	<p>We began to carry out more independent investigations. Choosing questions we wanted to answer and then working as part of a group to find the answers.</p>	<p>We wanted to make something new from materials.</p>
<p>Spark</p> <p>We were shown pictures of the forge we were going to be visiting and looked at what blacksmiths do. We were shown the inside of some machines and wondered what all the different bits were made out of and what they were for.</p>		<p>Learning Celebration</p> <p>We had all of our pegs put up in the cloakroom so that we could put our bags on something we had made ourselves.</p>  <p>When the raised bed is completed we will take our parents to see the pictures of us helping to build it and to help us put some plants into the bed.</p>
<p>Role Playing/Life Skills/Real Learning</p> <p>We learnt how things are made from metal. We watched bricks being laid and then</p>		<p>Community Cohesion</p> <p>We asked parents to bring in their machines that were no longer working for us to take apart.</p>

role played making brick walls using different brick laying patterns.
 We disassembled old machines to see what is inside.
 We constructed models based on household objects.
 We made our own musical instruments

We had a visitor play musical instruments for us so we could hear the different sounds which they made.

We invited the local college students who are learning to become bricklayers to come and help us plan and build our wall.



Out of Classroom Opportunities

We visited a local forge in Spalding. We were shown all of the equipment in the forge and how it was used to make objects out of metal. We all had a turn at making an object out of metal.



We took a walk to where a local firm were laying bricks. We watched the workers mixing cement and putting the bricks together and they told us all about what they were doing.



Home Learning Activity

We investigated the different materials that were used inside and outside our homes. We looked at different patterns which were made by bricks and other materials.



Computing and E-safety

We began to use the Purple Mash suite to improve our computer skills. We began to try some coding using the programs in order to change the way things happened on our screen. We used the internet to take a look at research for our literacy and project work and made notes on the things we had found. We learnt that how to create objects using a 3D printer using 'tinkercad', and watched a 3D printer in operation.

Links to discrete subjects: Literacy Maths RE Music MFL PHSE

In literacy we made instructions and flow charts to show how things are made. In maths we looked at clocks to see how they work and learned to tell the time. In addition we also solved mathematical problems by recreating objects using cubes. In science we investigated materials and their properties, and what makes them suitable for different purposes. We experimented with different materials to see how effective they would be at keeping us warm, keeping us dry, bending and stretching. We made decisions about which materials are most suited to which task. We also listened to musical instruments and thought about how we hear sounds. In music we made claves from wood and used them to explore rhythmic patterns. In history we considered how the way we make everyday things, such as toys, has changed over the years.



British Values

We found out about our local MP Nick Boles who visited our school to tell us a story. We thought about how there are lots of different jobs which people with unique skills are doing. We thought about how everyone should be valued for the things that they do.

Steps to Success

We looked at the video of the working forge and the samples of the insides of devices.
We explored man made materials in the area around our school and at home.
We observed a bricklayer working and learnt about how the bricks are laid.
Using different materials we classified them in different ways and looked at their properties.
We took objects apart to explore what they were made from and classified these. We looked at how different parts go together to make a device work.
We tested different materials and their properties focussing on using scientific vocabulary.
We planned to make a raised bed and we were visited by bricklayers from our local F.E. college to talk about how we could make it out of bricks. We helped order the materials for the bed.

We looked at different instruments and the sounds that they make. We were visited by a parent who showed us how some of his instruments make sound and listened to him play. We made our own claves in music as well as having a go at playing the ukulele. We went on a trip to the forge and made our own coat pegs which were put up in school to replace the old ones.

Project Evaluation

The highlights of the project were definitely the hands on experiences of visiting the forge and working with the different materials. The whole experience of the visit led naturally into science and maths work as well as providing us a number of opportunities to write.

Our work on materials helped us think in more scientific ways and we loved hearing the music and making our own instruments.

The raised bed project was delayed slightly so we are still waiting to help build the raised bed which will now take place later in the Summer term.

The coat pegs we created are fantastic and have replaced the old ones in our cloakroom. We now hang our pegs on something we made.