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| **Year Group - 1 and 2**  **Do the materials change in the fire?**  **Do the materials change when you squash, twist, bend and stretch them?** | | **Date – Term Three** | |
| **Curriculum Links** | * Year 1 * describe the simple physical properties of a variety of everyday materials * compare and group together a variety of everyday materials on the basis of their simple physical properties. * Year 2 * identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses * find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. | | |
| **Session Procedures** | **Before** - Check for rubbish, glass, hazards. Check weather forecast. Make sure that the fire circle and area are safe for the cooking.  **During –** Keep vigilant regarding broken branches, slippery ground  Wear Hi-Viz jacket. Road safety to get to the park  **After** – clear everything away and return any natural objects to their original place  **Wash hands** | * Wash hands after touching outside objects * Remind the children about how sharp some sticks can be and to be careful of brambles and stinging nettles. * Gloves must be worn for both litter picking and gardening * The school grounds are our classroom and must be treated with respect. | **Equipment**  Fire Equipment  Bread dough, willow sticks, wax, corn kernels  Clay, rock, sponge, wool, spoon, play dough, putty |
| **Introduction and Activity Opportunities** | **Main activity**  **How do material change when they are put over/in the fire?**  Remind the class about the fire safety precautions.  Make predications as to what will happen to each material when it is placed in the fire.  Whittle a hazel stick for the bread dough whilst the wax, willow sticks and corn kernels are placed in the fire.  Place the bread dough over the fire on the hazel stick.  **How do materials change when bent, twisted, stretched and squashed?**  Explain that the children are going to have to test each of the materials to see if they bend, twist, stretch or squash. | **Vocabulary**  Material  Reaction  Bend  Twist  Change  Heat |
| **Plenary** | All of the activities that we carried out today are science experiments – how is this information important in the everyday? |

TRANSFIGURATION LESSON

Professor McGonagall has

given you some spells to cast.

You will need to try each of these actions on the materials you have in your tray.

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| Material | Bend | Twist | Stretch | Squash |
| Putty https://www.thegreenhead.com/imgs/thera-flex-therapy-putty-1.jpg |  |  |  |  |
| Balloon https://www.dollartree.com/assets/product_images_2016/styles/alternate_large/174788.jpg |  |  |  |  |
| Wood Image result for wood branch |  |  |  |  |
| Material | Bend | Twist | Stretch | Squash |
| Paper https://www.hobbycraft.co.uk/supplyimages/584767_1000_1_340.jpg |  |  |  |  |
| Rock https://www.gobigrock.com/wp-content/uploads/2016/10/Fieldstone.png |  |  |  |  |
| Sponge http://www.essexsupplies.co.uk/wp-content/uploads/2015/12/CS00001P-Jumbo-Sponge.jpg |  |  |  |  |
| Wool https://www.cloudcraft.co.uk/image/cache/data/thick%20blueben-250x185.jpg |  |  |  |  |
| Metal Spoon  https://images-eu.ssl-images-amazon.com/images/I/31qrC8T4VUL._SL500_AC_SS350_.jpg |  |  |  |  |