| Everyday Materials | ay Materials | Learning lens: Geology Class: Year 1 |  |  |  |
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| Previous Knowledge |  | The key skills we want pupils to use during this topic: |  |  |  |
| Objects look and feel different based on the material they are made from. Using different materials when painting and making art. |  | Identify and classify - classify materials objects are made from and classify them into wood, plastic, glass, metal, rock. |  |  |  |
| Project Hook or 'Wow' memory |  | Research - which materials are waterproof ? |  |  |  |
| Making and testing waterproof hats |  | Report findings by talking and writing about them, displaying or presenting results and conclusions. Use results to draw simple conclusions, make predictions, suggest improvements and ask more questions. |  |  |  |
| Learning Steps | Key Knowledge (answers) | Gather, record, sort and present data in a variety of ways to help in answering questions. |  |  |  |
| What materials did the Three Little Pigs use to build their houses with? Did they work well? (Identify and classify) | Object- the house they made. Material-what the object (house) is made from. Strawthe house was too weak and bendy so it blew down easily in the wind <br> Sticks- This house was stronger but still blew down easily <br> Bricks-This house was made from rectangular blocks of baked clay which were very | Key vocabulary |  |  |  |
|  |  | Object | A thing that can be used. For example a door, chair, car, table. |  |  |
|  |  | Material | Materials are what an object is made from. |  |  |
| What are the different types of materials? (Identifying and classifying) | Paper, for example paper books. Brick- brick houses, fabric-clothing made from fabric, stone- stepping stones plastic- plastic toys, wood- wooden furniture, metal- metal tools, water- drinking water glass-glass window. | Smooth | Smooth objects have no lumps and bumps |  |  |
|  |  | Bendy | Bendy things can be folded easily |  |  |
| Which materials are hard, soft, stretchy, rough, smooth, shiny, dull bendy and not bendy, opaque, transparent? Comparative testing and pattern | Materials to test are wood, plastic, glass, metal water, rock, brick, paper, fabric, elastic, foil Wood is dull often not bendy, hard and not bendy, opaque. Plastic- normally bendy , smooth sometimes transparent. <br> Glass- hard, not bendy, smooth mostly transparent. Metal- hard, not bendy can be rough or smooth, often shiny sometimes dull, opaque. water | Waterproof /not | If something is waterproof it keeps water out. It keeps things dry. |  |  |
|  |  | Opaque | If an object or substance is opaque you cannot see through it. |  |  |
|  |  | Transparent | If and object is transparent you can see through it |  |  |
| Which materials are hard, soft, stretchy, rough, smooth, shiny, dull bendy and not bendy opaque, transparent? Comparative testing and pattern | Materials to test are rock, brick, paper, fabric, elastic, foil Rock-hard, not bendy, rough sometimes smooth, dull, opaque. Brick-hard, not bendy, rough sometimes smooth, dull, opaque. Paper- bendy sometimes stretchy, smooth, dull sometimes shiny, opaque. Fabric- soft sometimes stretchy, smooth or rough, sometimes shiny, bendy normally opaque. Elastic-soft, stretchy, dull, bend opaque. Foil- smooth, rough if scrunched up- shiny, bendy, opaque. | Absorbent | If something is absorbent it soaks water up. |  |  |
|  |  | Not absorbent | If something is not absorbent it does not soak water up. |  |  |
|  |  |  |  |  |  |
| Which is the best material for a waterproof hat/umbrella? (Fair testing) Design using predictions | Good waterproof materials would be plastic, foil, leather, polyester Non waterproof materials would be cotton (most fabrics) paper, wood, Materials that are too heavy would be brick, rock, metal, | I can distinguish between an object and the material from which it is made. <br> I can identify and name a variety of everyday materials including wood, plastic, glass, metal, water and rock. <br> I can describe simple physical properties of a variety of everyday materials. <br> I can compare and group together a variety of everyday materials on the basis of their simple physical properties. |  |  |  |
| Which is the best material for a waterproof hat/umbrella? (Fair testing) | Good waterproof materials would be plastic, foil, leather, polyester Non waterproof materials would be cotton (most fabrics) paper, wood, Materials that are too heavy would be brick, rock, metal. |  |  |  |  |

