| National Curriculum Objectives |  | Sticky Knowledge |  | Key Scientists |
| :---: | :---: | :---: | :---: | :---: |
| - Distinguishing between <br> - Identify and name mater water and rock, brick <br> - Describe physical proper | and material it's made from. e.g. Wood, plastic, glass, metal, <br> r, fabric, elastic, foil and compare | - A material is what something is made from. <br> - Glass can be transparent or translucent. <br> - Metal is strong and versatile. <br> - Wood is the material which comes from a tree. <br> - Plastic is versatile because it can be shaped or moulded to any shape. <br> - Rock is naturally occurring and a hard material. <br> - Water is a liquid and a naturally occurring material. <br> - Some materials and man-made and others is naturally occurring. <br> - There are other everyday materials such as: brick, paper, elastic and foil <br> - Charles Mackintosh invented a waterproof coat called the 'mac'. |  | Charles Mackintosh (Chemist and Inventor) <br> Ole Kirk Christiansen (Inventor) |
| Links to NHFS core curriculum themes |  | Vocabulary |  | Key Questions |
| Sustainability/Equality - links environment, climate change <br> Aspirations - e.g. glazier, black <br> Equality - comparing afforda | cycling, plastics and the carpenter, construction | Translucent, versatile, strong, man-made, natural, glass, wood, plastic, rock, metal, water, liquid <br> Comparative Language hard/soft, stretchy/ stiff, shiny/dull, rough/smooth, absorbent/not absorbent, waterproof, opaque/transparent |  | When is a wooden spoon more suitable than a plastic spoon? <br> Are all metals the same? <br> Is glass only used for windows? <br> Is all glass transparent? <br> Which materials can be recycled? |
| Prior Learning |  | Future Learning |  | Big Question |
| In EYFS children should: <br> - Be able to ask questions <br> - Talk about why things <br> - Discuss the things they hav objects. <br> - Manipulate materials to | e place they live. <br> and how things work. <br> served such as natural and found <br> a planned effect. | In Year 2 children will: <br> - Identify and compare the suitabi including wood, metal, plastic, for particular uses. <br> - Find out how the shape of solid be changed: squashing, bending | ity of a variety of everyday materials, ass, brick, rock, paper and cardboard <br> bjects made from some materials can wisting and stretching. |  |
| Which materials are the most flexible? <br> Which materials are the most absorbent? | We need to choose a material to create a waterproof canopy for Santa's sleigh. Which is best and why? | What happens to materials over time if we bury them in the ground? <br> What happens to ice over time? | Is there a pattern in the types of materials that are used to make objects in a school? | How is glass made? <br> What happens to our recycling? |

