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| **Classifying and Grouping Materials** | **Changing Materials** | **Working Scientifically** | | | |
| * Can they describe the simple physical properties of a variety of everyday materials? * Can they compare and group together a variety of materials based on their simple physical properties? * Can they link colours to natural and man-made objects? | * Can they explore how the shapes of solid objects can be changed? (squashing, bending, twisting, stretching) * Can they find out about people who developed useful new materials? (John Dunlop, Charles Macintosh, John McAdam) * Can they identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper, cardboard for particular uses? | Observing Closely | Performing Test | Identifying / Classifying | Recording Findings |
| * Can they use <see, touch, smell, hear or taste> to help them answer questions? * Can they use some scientific words to describe what they have seen and measured? * Can they compare several things? | * Can they carry out a simple fair test? * Can they explain why it might not be fair to compare two things? * Can they say whether things happened as they expected? * Can they suggest how to find things out? * Can they use prompts to find things out? | * Can they organise things into groups? | * Can they use <text, diagrams, pictures, charts, tables> to record their observations? * Can they measure using <simple equipment>? |
| **Challenge** | | | | | |
| * Can they describe the properties of different materials using words like, transparent or opaque, flexible, etc.? * Can they sort materials into groups and say why they have sorted them in that way? * Can they say which materials are natural and which are man made? | * Can they explain how materials are changed by bending, twisting and stretching? * Can they tell which materials cannot be changed back after being heated, cooled, bent, stretched or twisted? | * Can they suggest ways of finding out through listening, hearing, smelling, touching and tasting? | * Can they say whether things happened as they expected and if not why not? | * Can they suggest more than one way of grouping materials and explain their reasons? | * Can they use information from books and online information to find things out? |

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| **Learning Objectives** | **Activities** | **Learning Outcomes and AFL** |
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