Science

Year 1 and 2

Spring

Topic **Uses of Everyday Materials**

Rationale

The children will have the opportunity to investigate and learn about materials around them. They will have the opportunities to explore the characteristics of various materials whilst comparing them with others. The children will also investigate the suitability of using certain materials for a purpose. They will record their findings in both written and pictorial form whilst also having the opportunity to reinforce their data handling and recording skills from Maths.

NC Objective

- 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.

Links to other Subject/Topics.

Maths – Recording in tables, tally charts

English – Writing and recording (labels and captions)

Inspiration for Aspiration

Mechanical Engineer, Structural Engineer, joiner, plumber,

Key Content Year 1

- **What are materials?**
- **What are things made from?**
- **Which materials should the pigs make their house from?**
- **Which material will protect Humpty Dumpty?**
- **How can we change materials?**

Key Content Year 2

- **What are materials?**
- **What are things made from?**
- **Which materials should the pigs make their house from?**
- **Which material will protect Humpty Dumpty?**
- **How can we change materials?**

Concepts

Science	1	2	3	4	5	6
Plants						
Animals, including Humans						
Materials						
Light						
Sound						
Electricity						
Forces						
Earth and Space						

Skills and Knowledge EYFS

- Observing closely and describing with the senses
- Making predictions and giving some reasons why
- Use equipment safely beginning to select own appropriate equipment for the task
- Answer & ask simple questions
- Talk about what I have found out.
- Use some scientific language

Skills and Knowledge Year 1

- Asks simple questions and recognise that they can be answered in different ways.
- Observe closely, using simple equipment
- Identify and classify

Skills and Knowledge Year 2

- Asks simple questions and recognise that they can be answered in different ways.
- Observe closely, using simple equipment
- Identify and classify
- Record findings in a variety of ways.

• Finds information from illustrations and print in books and in the environment. • Knows that scientific information can be retrieved from books and computers		
EYFS Vocabulary Design Scrunch Bend	**Year 1 and 2 Topic Vocabulary** Material Types of materials such as, Wood, metal, plastic, glass, rubber, rock fabric, paper brick Words to describe materials, Hard, soft, rough, bumpy smooth, fragile strong, heavy light.	**Year 1 and 2 Scientific Vocabulary** Investigate, test, observe, equipment, describe, check, key, sequence, label, diagram, discuss, propose, question, experiment compare similarities differences
By the end of the topic <u>Year 1</u> children will with support:- • Identify and name and describe everyday materials. • Identify a variety of everyday items and the material from which it is made. • Identify the best material to make a house by comparing materials. • Identify the best material to protect an egg from breaking when dropped • Identify different materials that we can change by squashing, bending, twisting and stretching. • Record their observations	**By the end of the topic <u>Year 2</u> children will: -** • Identify and name and describe everyday materials. • Identify a variety of everyday items and the material from which it is made. • Identify the best material to make a house by comparing materials. • Identify the best material to protect an egg from breaking when dropped • Identify different materials that we can change by squashing, bending, twisting and stretching. Record their observations	
Assessment Grammarsaurus Cumulative Quiz and Assessment		