



Linked learning theme: Knights, Dragons and Castles

Summer term, Year 1 (6 to 8 weeks)

Science – Comparing materials

Prior Knowledge

EYFS-Understanding the world-Looked at the similarities and differences in relation to objects, materials and living things. Children have observed and interacted with natural processes- light casting a shadow/passing through transparent materials.

Core knowledge

I will know:

- How to describe the physical properties of everyday materials using terms such as rough/smooth, hard/soft, waterproof/not waterproof, transparent/opaque
- How to compare and group together a variety of everyday materials on the basis of their simple physical properties.
- How to carry out a simple comparative test
- How to record my simple observations
- That some materials are stronger than others
- That some materials float and others sink in water
- That some heavy objects float, and some light objects sink
- That some materials allow a lot of light to pass through them and some do not allow any light to pass through them at all

Key skills:

- Observe materials closely, using simple equipment
- Identify and classify different materials
- Ask simple questions and recognise that they can be answered in different ways
- Use their observations and ideas to suggest answers to questions
- Gather and record data to help in answering questions
- Perform simple tests.

Vocabulary	Hard	Solid	Sink
Material	Soft	Hollow	Float
Property	Waterproof	Absorbent	Similar
Texture	Not waterproof	Not absorbent	Different
Feel	Transparent	Flexible	Classify
Rough	translucent	Malleable	Grouping
Smooth	Opaque	Squishy	

Learning outcomes:

- I can observe materials closely, using simple equipment
- I can identify and classify different materials
- I can ask simple questions and recognise that they can be answered in different ways
- I can use their observations and ideas to suggest answers to questions
- I can gather and record data to help in answering questions
- I can perform simple tests.

- I can describe the physical properties of some everyday materials
- I can group and sort materials according to their properties.