Science Curriculum – Cycle A

Key Stage 1 – Spring 1

Theme – Everyday materials and their uses (Chemistry)

Enquiry Question – What is it made from and what is it like? (wood, plastic, glass, metal, water and rock)

National Curriculum Coverage

Pupils should be taught to:
Distinguish between an object and the material from which it is made
Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
Describe the simple physical properties of a variety of everyday materials
Compare and group together a variety of everyday materials on the basis of their simple physical properties.

Key Scientists: **Charles Mackintosh**	**Comparative Test** Which material is best for the roof of The Little Pig's House?	**Observation over time** What happens to materials over time if we bury them in the ground?	**Pattern Seeking** Are there more wooden materials than plastic materials in the classroom?	**Research** Which materials can be recycled?

Objective	Challenge	Working Scientifically	Vocabulary
• To name some different everyday materials - wood, plastic, glass, metal, water, rock • To distinguish between an object and the material from which it is made from. • To sort materials into groups based on their physical properties - hard/soft, stretchy/stiff, dull/shiny, rough/smooth, bendy/not bendy, waterproof/not waterproof, absorbent/not absorbent, opaque/transparent • To know and describe the simple properties of a variety of everyday materials	• To describe things that are similar and different between materials. • To explain what happens to certain materials when they are heated, e.g. bread, ice, chocolate • To explain what happens to certain materials when they are cooled, e.g. jelly, heated chocolate. **or own challenges*	See separate objectives sheet.	**Materials:** wood, plastic, glass, metal, water, rock, brick, paper, fabrics, plastic, foil **Properties:** hard/soft stretchy/stiff shiny/dull rough/smooth bendy/not bendy waterproof (not) absorbent (not) opaque transparent