

The Flourish Federation—Knowledge Organiser

Brookfield Infant and Junior Schools



Science Focus:

Uses of Everyday Materials

Year 2

Term 2

What? (Key Knowledge)

Distinguish between an object and the material from which it was made.	Label a range of materials and group them based on different criteria eg hard/soft, stretchy/not stretchy, shiny/dull, rough/smooth, bendy/not bendy, transparent/not transparent, sticky/not sticky. Explore differences between materials for old and new toys. Thinking about how they were made. Answer questions such as 'Which materials would be good for making children's toys?' giving reasons why. Make toys and evaluate them. Which materials were most successful? What didn't work?
Identify and name a variety of materials.	
Describe simple physical properties of a variety of everyday materials.	
Compare and group together a variety of everyday materials on the basis of their physical prop-	

What? (Key Vocabulary)

Spelling	Definition
materials	What objects are made from—wood, glass, plastic, metal, paper, cardboard, fabric, rubber
properties	What a material is like and how it behaves—soft, hard, stretchy, transparent, waterproof
suitability	Having properties that are right for a specific purpose.

Cross - Curriculum Links

History—Comparing and contrasting materials used for old and new toys and why they changed—looking at properties and thinking about availability, how they were made and safety.

Art & DT—designing and making toys

Who? (Key Scientists)

Leo Hendrik Baekeland (1863 - 1944)	Made 'Bakelite' - the first synthetic plastic.
Charles Goodyear (1800 - 1860)	Vulcanized rubber making it stronger and more reliable.

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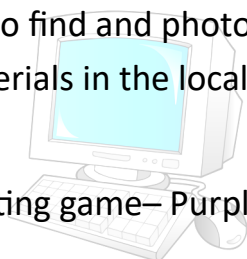
Year 2

Term 4

ICT Opportunities

Using I-pads to find and photograph different materials in the local environment.

Materials sorting game— Purple Mash



Writing opportunities

Time capsule letter writing—how are old toys and new toys the same/different and why.

Toy story writing—developing and improving vocabulary describing properties of toys

Visuals



plastic	glass	metal	wood	leather	cloth

Challenge - Why might it be made like this?

Examples:

Plastic as it's hard and won't break.

Metal so it can be shiny so it looks nice.

Wood so you can have corners but they are not too sharp.

