

Year 2 Autumn 2

Science Crucial Knowledge

Uses of Everyday Materials

- Wood is a hard material that comes from a tree.
- Metal is a solid material that is often hard and shiny.
- Plastic is a man-made material that can be flexible or hard. It can be different colours, shapes and sizes.
- Glass is a hard transparent or translucent material.
- Rock is a solid mineral material that is part of the earth.
- Paper is a material made from tree pulp used for writing or drawing on.
- Cardboard is a stiff, thicker form of paper.
- Properties – these are the things that something has, its features.
- Changing shape – to make something different in the way it looks.

History Crucial Knowledge

Life in the pits

- Newcastle-Under-Lyme had many coal mines during its history.
- Coal is made when dead plants get trapped in the soil over millions of years.
- Coal can be burned to make energy.
- Coal is found underground. People dig down to find it. This is called 'mining'.
- Coal miners worked long shifts for little pay. The conditions they worked in were dirty and dangerous.
- Children as young as 6 could work in coal mines.

Design Technology Crucial Knowledge

Mechanisms Wheels and axles

- A wheel is a circle that rolls so that a vehicle can move
- An axle is a rod that attaches to the wheel and allows the wheel to turn

Computing Crucial Knowledge

Digital Photography

- **Digital Device** is something that has a computer inside to make it work like a washing machine or mobile phone.
- **Information Technology** is a computer or has a computer inside or works with computers.
Technology is all around us, in school (Computer, whiteboard and photocopier), At home (mobile phone, Television, washing machine, cameras) In the real world (Scanners in shops, traffic lights and street lamps).
Technology can be used to create, organise, store, change and find digital content.

Music Crucial Knowledge

Exploring sounds

Beat

- **Singing** is to perform songs or tunes using our voices.
- **Tuned instrument** is an instrument that plays set notes e.g. piano.
- **Untuned instrument** is an instrument that does not play set notes e.g. drums.
- **Rhythm** is the music's pattern in time (counted).
- **Timbre** is the quality of the sound of a voice or instrument.

Physical Education Crucial Knowledge

Dance

- **Balance** is to control your body's position to stay upright. This might be when you stay in one space (e.g. yoga) or whilst moving (e.g. Skiing)
- **Co-ordination** is the ability to move two or more body parts under control, smoothly and efficiently.
- **Co-operation** is when you work together with others to achieve a result.
- **Dance** is to move the body in a rhythmic way, usually to music and within a given space

Religious Education Crucial Knowledge

Valuing new life – birth of Jesus

- Christians believe that Jesus was a special baby because he was the son of God.
- Christians believe that Jesus was born on the 25th December – Christmas Day.
- Christians believe that Mary and Joseph were given Jesus by God.
- In the Christmas Story, Jesus was visited by three groups of people – the angel, the shepherds and the wise men.

Personal, Social Health & Economic Education Crucial Knowledge

What is bullying?

- Bullying is name calling, physically hurting someone, excluding others
- Physical contact is ok if you are happy with it but not if it makes you feel uncomfortable (regardless by whom)
- If you are being bullied you should tell a responsible trusted adult - like a teacher or family member

