

Year 2 Autumn 2

Science Crucial Knowledge

Uses of Everyday Materials

- A material is what something is made of.
- Certain materials are chosen to make objects because of what they can do. For example, windows are made of glass because it can be seen through (transparent).
- Some materials can change shape by squashing, bending, twisting and stretching.
- Some materials are used for more than one thing (metal can be used for coins, cans, cars and table legs; wood can be used for matches, floors, and fences)
- Different materials are used for the same thing (spoons can be made from plastic, wood, metal, but not normally from glass).

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

Creating Media - 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.
- Technology can be used to change digital content.

Music Crucial Knowledge

Christmas concert Performance

- Recorded music is music that has been recorded by a live artist or band and then played back.
- Live music is music that is performed in front of an audience.
- Singing is performing songs or tunes using your voice.
- Solo is when someone sings or plays an instrument on their own.
- An ensemble is when a group of people perform together.

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 celebrate the birth of Jesus 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

