

Year 4 Autumn 2

Science Crucial Knowledge

Electricity

- Electricity is the flow of an electrical current or charge through a material. It helps to power appliances.
- Electricity needs to flow around a complete circuit in order to work.
- A circuit is a pathway for electricity to flow around.
- A circuit includes a cell, wires, bulb, switch/buzzer.
- A conductor is a material that electricity can pass through.
- Metals make good conductors.
- An insulator is a material that electricity cannot pass through.

History Crucial Knowledge

Life in the pits

- Local mines that produced coal were: Apedale, Holditch, Birch House Colliery and Parkhouse Colliery.
- A lot of people in the Stoke-on-Trent and the surrounding area would have worked in coal mines.
- Miners got along well with each other. They were respected in the areas they lived for the work that they did.
- There were many dangers when working in a coal mine.
- New inventions made working in the mines much easier as history progressed.

Design Technology Crucial Knowledge

Mechanical Systems Levers and linkages

- A fixed pivot is where the lever is fixed to the base it is attached to.
- A loose pivot attaches two levers together, but it is not attached to the base.
- Using fixed and loose pivots in one mechanism makes different types of movement other than just side to side or up and down.

Computing Crucial Knowledge

Creating Media - Photo Editing

- Technology can be used to create and change digital content.
- Digital images can be manipulated for different purposes.
- Digital images can be edited using software by;
 - Cropping
 - Cloning
 - Retouching
 - Combining images
 - Adjusting colour and light
- Online safety is important so we can stay safe when learning and using the internet.

Vocabulary: image, edit, digital, crop, rotate, undo, save, adjustments, effects, colours, hue, saturation, sepia, vignette, image, retouch, clone, select, combine, made up, real, composite, cut, copy, paste, alter, background, foreground, zoom, undo, font.

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

- Collaboration is working with others to achieve/create something.
- Technique is a way of carrying out a particular task.
- Evaluate is to judge something.
- Co-ordination is the ability to move two or more body parts under control, smoothly and efficiently.
- Dance is to move the body in a rhythmic way, usually to music and within a given space.
- Collaboration is working with others to achieve/create something.
- A pattern is when a movement or action is repeated.
- Flexibility is the range of movement through body joints.
- Movement is when changing position, posture or place.

	<ul style="list-style-type: none"> Agility is how quickly you can change direction whilst maintaining speed, balance and power.
Ball Games - Netball	<ul style="list-style-type: none"> Attack is to try to move past and score against the opposing team. Defend is to block the other team and stop them from scoring. Co-operation is when you work together with others to achieve a result. Catching is the use the hands to stop and hold a moving object. Eyes on the object, fingertips together (two handed catch). Catch the object, then grip it. Communicating with others giving and receiving information. Throw is to push an object by hand with a sudden forward motion ending with straightening the arm and wrist. Eyes on the object, Fingertips together (two handed catch). Collaboration is working with others to achieve/create something

Religious Education Crucial Knowledge

Landmarks in Life	<ul style="list-style-type: none"> Rites of passage are special rituals that mark the different stages in life (e.g. birth ceremony, wedding, funeral) A Sacred Thread ceremony (upanayana) is a ceremony for boys in Hindu communities to confirm they can take on religious responsibility. A Christian confirmation is when young Christians take on religious responsibility.
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Personal, Social Health & Economic Education Crucial Knowledge

How can we manage risk in different places?	<ul style="list-style-type: none"> Risk is something which may harm you or others. There are risks in our daily lives e.g. roads, rail tracks, water. To be safe online we should not share personal information. To be safe online we should only play games that are age appropriate. You should report anything which makes you feel uncomfortable, unhappy or scared to a trusted adult.
Police Cadets	

Spanish Crucial Knowledge

English	Spanish	English	Spanish
Hello!	¡Hola!	great	fenomenal
Good morning!	¡Buenos días!	happy	contento (m) contenta (f)
Good afternoon!	¡Buenas tardes!	ill	enfermo (m) enferma (f)
Goodbye!	¡Adiós!	bad	mal
Goodnight!	¡Buenas noches!	sad	triste
How are you?	¿Qué tal? ¿Cómo estás?	What is your name?	¿Cómo te llamas?
I am...	Estoy...	My name is...	Me llamo ...
good	bien	Numbers 1-10	un, dos, tres, cuatro, cinco, seis, siete, ocho, nueve, diez