



Science

Science Rocks and Soils

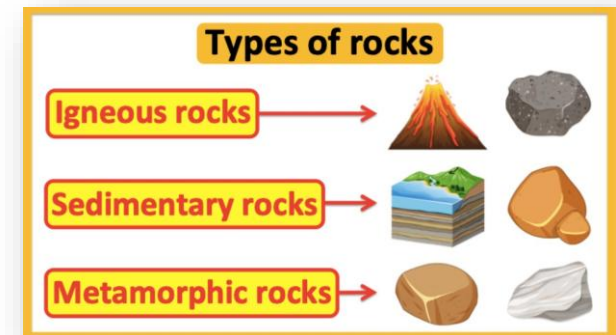
Bindon
Class

Key Learning

- ✓ Know that fossils are formed when something dies and is buried in rock or mud.
- ✓ Know that soil is a mixture of crumbled rock and dead plants and animals.
- ✓ Know that there are three kinds of rocks: igneous, sedimentary and metamorphic.
- ✓ Know that equipment should be used systematically and carefully.

Key Vocabulary

Word	Definition
fossil	the remains or traces of plants and animals that lived long ago
soil	a mixture of crumbled rock, dead plants and dead animals
igneous	rocks formed from molten rock below the Earth's crust
sedimentary	formed when fragments of rock settle and stick together in layers
metamorphic	formed when rocks in the Earth's crust get squashed and heated



Igneous



basalt

Sedimentary



limestone

Metamorphic



marble



Science

Key Learning

Science Light

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Class

- ✓ To know that we need light to see and that darkness is the absence of light.
- ✓ To know that sunglasses can protect eyes from sunlight, but looking at the sun directly - even with sunglasses - can damage the eyes.
- ✓ To know that light is reflected,
- ✓ To know that we get shadows when light is blocked by an opaque object.
- ✓ To know how to draw a diagram with straight lines representing light

Key Vocabulary

Word	Definition
reflect	The throwing back by a body or surface of light, heat, or sound without absorbing it.
shadow	A dark area or shape produced by a body coming between rays of light and a surface.
opaque	Not able to be seen through
transparent	Material or article allowing light to pass through so that objects behind can be distinctly seen
beam	A ray of light





Key Learning

Key Vocabulary

- ✓ To locate Brazil, Colombia, Peru and other South American countries on a globe/atlas – and their capital cities.
- ✓ To identify the position of the Equator, Tropic of Cancer and Tropic of Capricorn.
- ✓ To know the names of, and locate, world deserts: Sahara, Gobi, Antarctic and Arctic
- ✓ To know that the Tropic of Cancer is significant because it is the northernmost point where the sun's rays are directly overhead.
- ✓ To know that the Amazon Rainforest is the world's largest rainforest and that it is one of the most diverse ecosystems in the world.

Word	Definition
Rainforest	A luxuriant, dense forest rich in biodiversity, found typically in tropical areas with consistently heavy rainfall.
Amazon	Amazon Rainforest, large tropical rainforest occupying the drainage basin of the Amazon River
understory	the vegetative layer and especially the trees and shrubs between the forest canopy and the ground cover
deforestation	clearing a wide area of trees.
endangered	seriously at risk of extinction.





Design Technology

Pneumatic Toys

Bindon
Class

Key Learning

- ✓ I can recall that mechanisms are a system of parts that work together to create motion.
- ✓ I can recall that a pneumatic system can be used as part of a mechanism.
- ✓ I can recall that pneumatic systems are used in a range of everyday objects.
- ✓ I can recall that a pneumatic system can force air over a distance to create movement.

Key Vocabulary

Word	Definition
Exploded-diagram	A diagram which shows all of the parts of a product, including the internal and external parts.
Function	How something works.
Input	Input is the motion used to start a mechanism.
Linkage	Lengths of material (for example, metal or card) that are joined together by pivots, so that the links can move as part of a mechanism.
Mechanism	The parts of an object that move together as part of a machine.





Art

Key Learning

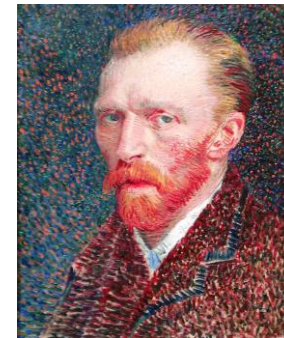
Art Painting

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Class

- ☑ To mix tertiary colours: red-orange, yellow-orange, yellow-green, red-purple, purple-blue and blue-green. (Yr 3)
- ☑ To know that the tone of a colour can be changed by adding grey. (Yr 3)
- ☑ To know that you can use more or less water to create different intensity of colour. (Yr 4)
- ☑ To identify and create foreground and background in pictures. (Yr 4)
- ☑ To use a colour wash and layering to create depth in their painting. (Yr 4)
- ☑ To know the complementary colours: yellow and purple, orange and blue, red and green. (Yr 4)

Key Vocabulary

Word	Definition
Landscape	A scene from nature, such as the countryside.
Foreground	The area of the picture space nearest to the viewer.
background	The area of the picture space furthest away from the viewer.



Vincent van Gogh

He is a Dutch painter.

He painted landscapes, still life, portraits and self-portraits. His work was characterised by bold colours and expressive brushwork



Religious Education

Islam

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Class

Key Learning

- ✓ To describe what a Muslim might learn from a story about Muhammad
- ✓ To describe what Muslims might learn from a story about Muhammad's life about Allah or about living
- ✓ To describe some different ways Muslims show / do not show their beliefs about Muhammad in art, calligraphy or design
- ✓ To describe the Shahadah and know all Muslims everywhere recite the same word

Key Vocabulary

Word	Definition
Prophet	Messenger sent from Allah
Allah	The name Muslims use for their God
Mohammed	The last prophet sent by Allah
Obey	To act upon Allah's requests
Submit	Surrenders to Allah's will





Religious Education

Gospel: What kind of world did Jesus want?

Bindon
Class

Key Learning

- ✓ To understand the links between the calling of the first disciples and how Christians today try to follow Jesus.
- ✓ To describe how Christians believe Bible stories are still relevant and teach about the importance of love, and life in the world today.
- ✓ To know that Christians try to be like Jesus.

Key Vocabulary

Word	Definition
Gospel	Means 'good news' For Christians, this refers to the first four books in the New Testament: Matthew, Mark, Luke and John
Parable	A tale that illustrates a moral lesson.
Leprosy	A disease of the skin that disfigures people and was contagious.

