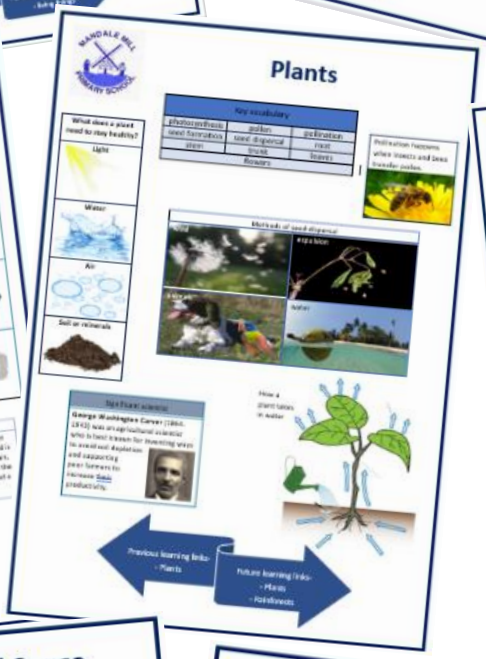
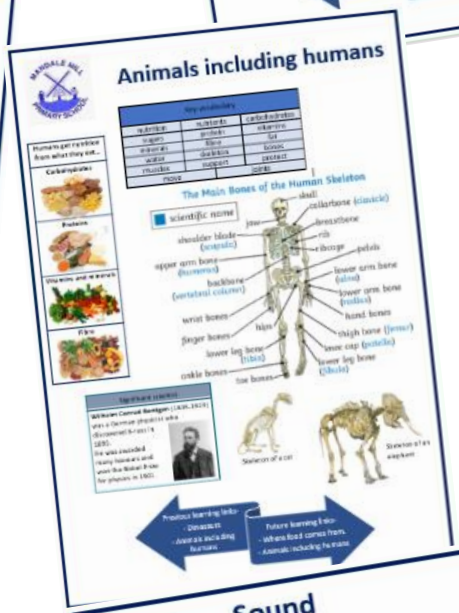
Animals including humans

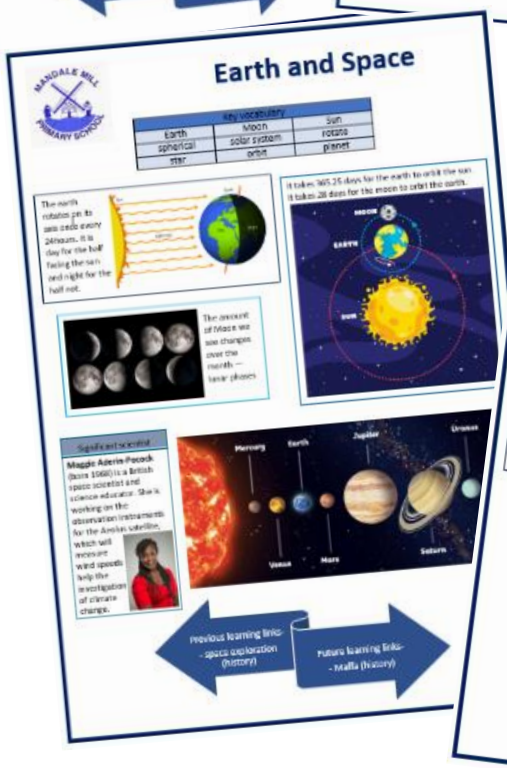
Seasonal Changes

Everyday materials

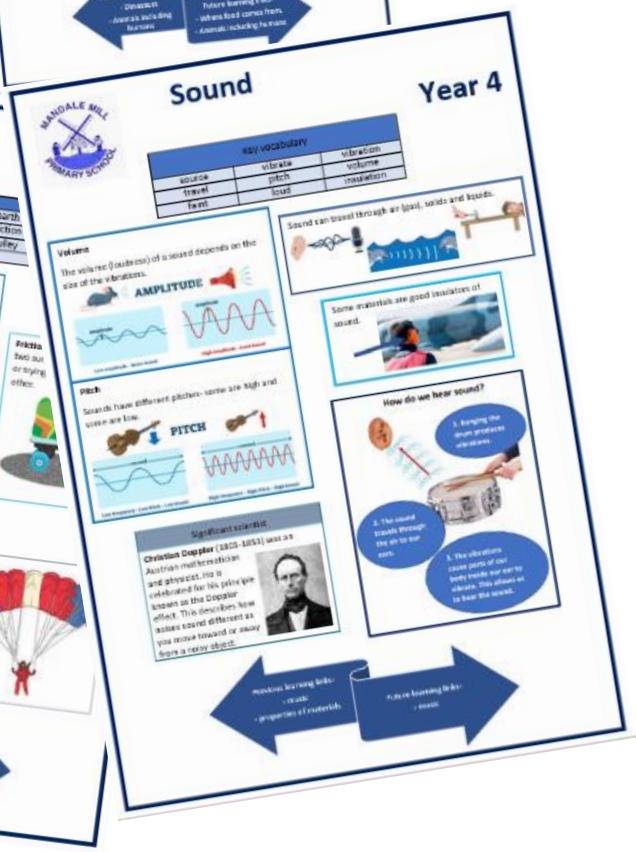
Rocks and soils


Plants


Animals including humans


Earth and Space

Key vocabulary
force
air resistance
water resistance
friction
mechanism
lever
pulley
gear
Gravity is the force that pulls everything down toward the centre of the Earth.
Water resistance is a type of force that uses friction to slow things down that are moving through water.
Air resistance is the frictional force air exerts against a moving object. As an object moves, air resistance slows it down.
Sir Isaac Newton (1642-1726) was an English scientist and mathematician. He 'discovered' the concept of gravity when sitting under a tree and an apple fell to the ground near him.
Previous learning links:
- magnets
- DT
Future learning links:
- DT
- Y7 readiness


Sound
Year 4
Key vocabulary
source
travel
heard
vibration
vibrate
volume
pitch
loud
quiet
insulation
Volume
The volume (loudness) of a sound depends on the size of the vibrations.
AMPLITUDE
Pitch
Sounds have different pitches- some are high and some are low.
PITCH
Sound can travel through air (gas), solids and liquids.
Some materials are good insulators of sound.
How do we hear sound?
1. Banging the drum produces vibrations.
2. The sound travels through the air to our ears.
3. The vibrations cause parts of our body inside our ears to vibrate. This allows us to hear the sound.
Significant scientist
Christian Doppler (1803-1853) was an Austrian mathematician and physicist. He is celebrated for his principle known as the Doppler effect. This describes how noises sound different as you move toward or away from a noisy object.
Previous learning links:
- sounds
- properties of materials
Future learning links:
- sound