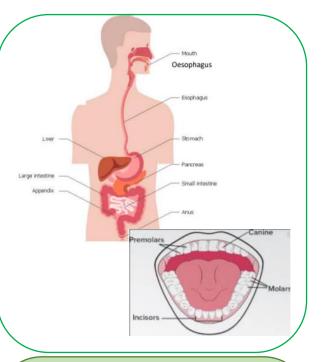
# Autumn 1-The Digestive System: Biology 🏹



What? (key knowledge)		Food Chains	
The Digestive System			Producers are living
What are the main parts of the digestive system?	The mouth, oesophagus, stomach, small intestine, large intestine, and anus	What are producers?	things that make their own food - usually using energy from the sun
What is the role of the digestive system?	The digestive system breaks down food into nutrients so the body can use them for energy, growth and repair	What are prey?	Organisms (or living things) that predators kill for food
What are the different types of teeth called?	Canines, incisors, premolars and molars	What are predators?	A predator is an animal that hunts, kills and eats other animals for food
What role do teeth play in digestion?	They start the digestive process by cutting and chewing food	What do food chains show?	A food chain shows how plants and animals get their energy

canine	pointed teeth near the front of the mouth of humans		
carnivore	an animal that eats meat		
decay	gradually destroyed by a natural process		
digestion	breaking down ingested food material		
excretion	the process of eliminating faeces from the body		
faeces	solid waste substance that people pass through the anus		
herbivore	an animal that only eats plants		
incisor	the teeth at the front of the mouth used for biting		
intestines	the tubes that food passes through when it has left your stomach		
molar	large, flat teeth towards the back of your mouth used for chewing		
omnivore	an animal that eats both plants and meat		
oesophagus	the part of your body that carries the food from the mouth to the stomach		



#### Influential Scientist: William Beaumont



He was a surgeon in the U.S. Army who became known as the "Father of Gastric Physiology" following his research on human digestion.

### Autumn 2 - Electricity: Physics Forces, Levers and Pulleys: Physics

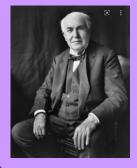
What? (key knowledge)		Circuits	
Elect Where does electricity come from?	Ficity Electricity is generated using energy from natural sources such as the Sun, oil, water and wind.	How does a circuit work?	The battery pushes the electricity along the wires from the positive terminal, through the bulb and back to the negative terminal. This creates a circuit.
Which appliances run on electricity?	Some appliances use batteries and some use mains electricity.	What is an electrical conductor?	Objects that are made from materials that allow electricity to pass through
What is a complete circuit? What can be used to	A complete circuit is a loop that allows electrical current to flow through wires A switch controls the flow	What is an electrical insulator?	Objects that are made from materials that do not allow electricity to pass
break the flow in a circuit?	of the electrical current around the circuit. When the switch is off, the current cannot flow.	What is a series circuit?	through A simple circuit with several components one after the other.

appliances	a device or machine in your home that you use to do a job	
battery	small devices that provide the power for electrical; made up of multiple cells	
bulb	the glass part of an electric lamp, which gives out light when electricity passes through it	
buzzer	an electrical device that is used to make a buzzing sound	
cell	A cell is a single unit device which converts chemical energy into electric energy	
component	the parts that something is made of	
current	a flow of electricity through a wire or circuit	
mains	where the supply of water, electricity, or gas enters a building	
switch	a small control for an electrical device which you use to turn the device on or of	
wires	a long thin piece of metal that is used to fasten things or to carry electric current	

Battery Switch Light Common appliances that use electricity. Common appliances that use electricity. Common appliances that use electricity. Electricity. Common appliances that use electricity.

### Influential Scientist: **Thomas Edison**

headlights



torch

He is best known for inventing 'domestic' lightbulbs to go in houses, and the electric power system that allows them to work.

television

## Spring 1 - Sound: Physics



	What? (key knowledge)		Sound				
		Sound What is a sound? A thing that can be heard.		What is volume?		The volume of a sound is how loud or quiet it is.	
	How is a made How do s trave	? ounds	When objects vibrate, a sound is made. The vibration makes the air around the object vibrate and the vibrations enter your ear. Sound waves travel through a medium (such as air, water, glass, stone,	How do we measure sound?		<b>Amplitude</b> measures how strong a sound wave is. <b>Decibels</b> measure how loud a sound is	
	What is p	oitch?	and brick). The pitch of a sound is how high or low it is.	How	v do we hear sounds?	The sound waves travel to the ear and make the eardrums vibrate.	
,	vibration		caused by the vibration of a usually air) and it travels in w	waves.			
	pitch	sound has	und has a high pitch and a loo s a low pitch. A tight drum sk gher pitched sound than a lo n.				
	volume	the inten the inten	e is the perception of loudness from tensity of a sound wave. The higher tensity of a sound, the louder it is ived in our ears, and the higher volume				
	insulation	Protecting something by surrounding it material that reduces or prevents the transmission of sound.				louder	
	cochlea	The cochlea looks like a spiral-shaped snail shell deep in your ear. It plays an important part in helping you hear.			Tnflu	ential Scientist:	
	auditory		is close in meaning to acoust usually refers more to hearin ound.	to acoustic, but		alileo Galilei	
	frequency	•	y is measured as the number es that occur in one second.	of		Galileo was the first scientist to record	
	hammer	help you l (malleus)	has little bones called ossicle hear. They are called the har , anvil (incus), and stirrup (st plify the sound or make it lou	nmer apes).	es). between the frequency of the		