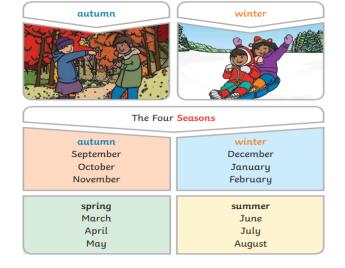
Pine Class Science Knowledge Organiser - Autumn Term

Seasonal Changes

Key Vocabulary		
seasons	There are four seasons each year, autumn, winter, spring and summer.	
autumn	In autumn, the weather begins to get colder. The leaves start to fall from the trees. The amount of daylight becomes less. This means the daytimes are shorter and the night times are longer.	
winter	In winter, the weather is much colder. Sometimes it is cold enough to freeze, leaving frost and ice on the ground. It sometimes snows. Many trees have bare branches as all their leaves have fallen off. The daytimes are the shortest in the year and the night times are the longest.	
weather	The weather includes the temperature outside, the wind direction and strength, as well as rain, cloud, snow and sun.	
daylight	Daylight is when it is light outside. The amount of daylight changes with each season.	



Everyday Materials

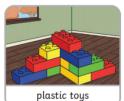
Key Vocabulary		
object	A thing that can be used. For example a door, chair, car, table are all objects.	
material	Materials are what an object is made from.	
hard	Not easily broken or bent.	
soft	If something is soft, it is easy to cut, fold or change the shape of.	
stretchy	Can be pulled to make it longer or wider without breaking.	
shiny	Reflects light easily.	
dull	Doesn't reflect light. Doesn't look bright or shiny.	
rough	If something is rough, it feels and looks uneven or bumpy.	















Materials:







plastic

wood

metal







paper





Key Vocabulary	
smooth	Smooth objects have no lumps or bumps.
bendy	Bendy things can be folded easily.
not bendy	If something is not bendy , it can't be folded easily.
waterproof	If something is waterproof, it keeps water out. It keeps things dry.
not waterproof	Not waterproof materials let water in.
absorbent	$If something is {\color{red} absorbent}, it soaks water up. \\$
not absorbent	If something is not absorbent, it does not soak up water.
transparent	Transparent objects can be seen through.
opaque	Opaque objects can't be seen through.

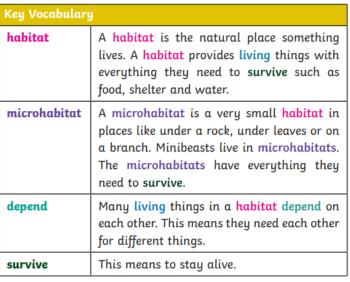




Animals and their <u>homes</u>

Key Vocabulary		
amphibians	Amphibians live in the water as babies and on land as they grow older. They have smooth, slimy skin.	
birds	All birds have a beak, two legs, feathers and wings.	
fish	Fish live and breathe under water. They have scaly skin, fins to help them swim and they breathe through gills.	
mammals	Mammals are animals that breathe air, grow hair or fur and feed on their mother's milk as a baby.	
reptiles	All reptiles breathe air. They have scales on their skin.	
carnivore	Animals that mostly eat other animals (meat) are carnivores.	
herbivore	Animals that only eat plants are herbivores.	
omnivore	Animals that eat both plants and other animals are omnivores.	

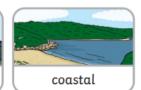




Examples of habitats:

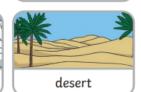


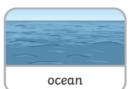


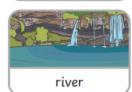
















Examples of microhabitats:









inside rotting wood

Which animal group do humans belong to?

Why is glass a good material for windows?

Can you describe the materials your home is made of?

Why would a tree be a good home for a squirrel?

What do animals need to survive?

Key discussion points