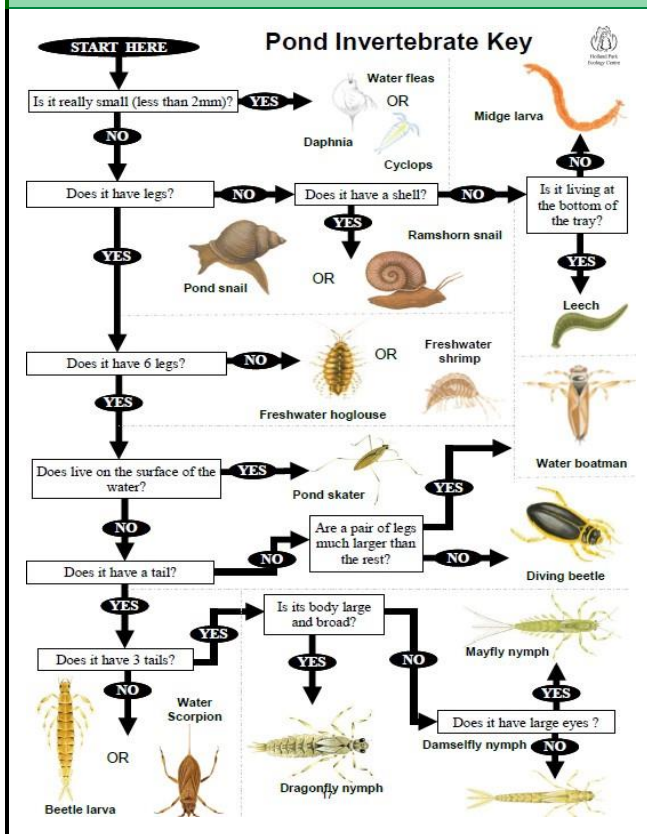


What? (Key Vocabulary)	
Spelling	Definition/Sentence
Taxonomy	The part of science focused on classification
Classification	Grouping something using its features
Distinguish	Recognise a difference
Microorganism	A microscopic organism

Who? (Scientists we need to know about)	
3 facts about Carl Linnaeus	<ul style="list-style-type: none"> Born in Sweden on 23rd May 1707 A leading light in the field of Taxonomy Famous for developing the first system to classify animals effectively

Diagrams and Symbols



Recommended Experiments

- A minimum of two experiments should take place during this unit of work with one final written outcome linked to the scientific enquiry skills and approaches used.
- Comparing animals from different habitats locally, in other areas in the UK and abroad
 - Designing an investigation to lead another year groups on a bug hunt using these classification keys
 - Locating a range of habitats on the school site and interpreting these results

What? (Key Knowledge)	
Grouping living things	
Animals can be put into one of two groups	Vertebrates or invertebrates
Vertebrates	
Vertebrates	Are animals with a backbone
There are 5 ways Vertebrates can be grouped	Fish, amphibians, reptiles, birds, mammals
How to spot a Fish	Breathes with gills/lays eggs in water/has fins and scales/its body temperature changes
How to spot an Amphibian	Born with gills then develops lungs/lays eggs in water/damp skin/body temperature changes
How to spot a Reptile	Breathes with lungs/lays eggs on land/dry scaly skin/body temperature changes
How to spot a Bird	Breathes with lungs/lays eggs with hard shells/has feathers/steady body temperature
How to spot a Mammal	Breathes with lungs/babies are born live/body hair or fur/steady body temperature/feeds babies milk

Invertebrates	
Invertebrates	Are animals with no backbone
There are 3 ways Invertebrates can be grouped	<ul style="list-style-type: none"> Insects Arachnids Molluscs
How to spot an Insect	3 body sections/6 legs
How to spot an Arachnid	2 body sections/8 legs
How to spot a Mollusc	Slimy foot/Often have a shell

Deciding which animal or plant is which

Key Features to distinguish between animals	<ul style="list-style-type: none"> Invertebrate or vertebrate Mammal/reptile/fish/amphibian/bird Colour Length Number of legs Number of body segments Distinguishing features Habitat
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Key Features to distinguish between plants	<ul style="list-style-type: none"> Flowering or non-flowering Grass/cereal/garden shrub/deciduous/algae/coniferous/fern Colour Height Number of flowers Fruit bearing or not Distinguishing features Usual location
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Microorganisms	
Key features of microorganisms	<ul style="list-style-type: none"> Include algae, fungi, protozoa, bacteria and viruses Smallest organisms on Earth They perform photosynthesis, break down waste and infect other organisms

Question 1: Which one of the following best describes a microorganism	Start of Unit	End of Unit
A blood cell that carries oxygen around the body		
A living thing that you cannot see with your eyes		
A cell that attacks viruses		
A cell that carries electrical messages		

Question 2: Tick which is a microorganism?	Start of Unit	End of Unit
Virus		
Bone cell		
Brain cell		
Liver cell		

Question 3: Which of the following is not a class of microorganism	Start of Unit	End of Unit
Bacteria		
Fungus		
Algae		
Muscle cells		

Question 4: All microorganisms make you sick	Start of Unit	End of Unit
True		
False		
Don't know		

Question 5: Which of the following is not a way of spreading illnesses	Start of Unit	End of Unit
Coughing		
Touching		
Looking		
Sneezing		

Question 6: What is an invertebrate?	Start of Unit	End of Unit
An animal with a back-bone		
An animal with ribs, but no other bones		
An animal with no bones in its body		
Any animal that lives in the sea		

Question 7: Which of the following is not an invertebrate?	Start of Unit	End of Unit
Crab		
Octopus		
Ant		
Sloth		

Question 8: Which of the following is a feature of all mammals	Start of Unit	End of Unit
Scales		
4 chambered heart		
Legs		
Forked Tongue		

Question 9: Which of the following best describes a human?	Start of Unit	End of Unit
Marsupial		
Rodent		
Primate		
Monotreme		

Question 10: Which way are plants usually classified?	Start of Unit	End of Unit
Flowering and Non-Flowering		
Trees and Grasses		
Thorny and Safe		
Poisonous and Non-poisonous		

Question 11: Which of the following is not a flowering plant?	Start of Unit	End of Unit
Cactus		
Conifer		
Rose		
Apple tree		

Question 12: What is the name of the molecule that is the blueprint for all life on earth?	Start of Unit	End of Unit
RNA		
MRSA		
DNA		
NSA		