

Build-a-bug

Teacher Info Sheet

Curriculum Links: Living things and their habitats, Working Scientifically

- Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals.
- Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs

Part one:

An introduction to different insect pests. Use the *Build-a-Bug Fact Files* to help students learn about different insect pests and find out what adaptations make them effective pests.

Use the Build-a-Bug sheets to cut out insect parts and get students to create their own pests. They should think about the different parts they can choose from and their functions. They can then complete the table to explain what their bug's favourite food is, how it eats, how it moves and whether it has any special qualities.

Part two:

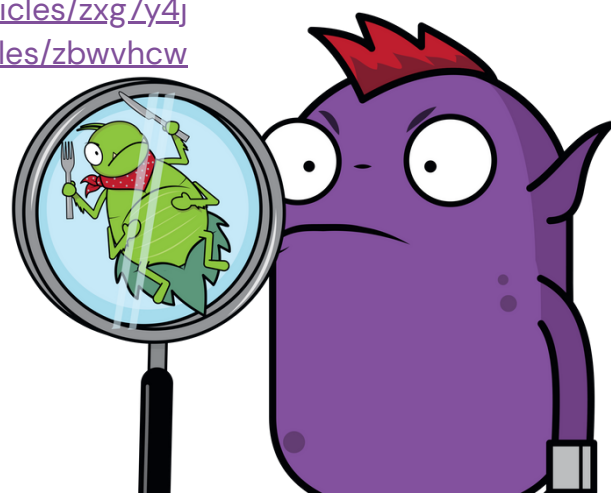
An introduction to plant diseases. A pathogen is an organism that causes a disease. There are four main types of pathogen: viruses, bacteria, fungi, and protists. Plant pathogens kill or reduce the growth of many plants, which in turn can reduce biodiversity. Plant pathogens of food crops are especially serious, such as the Irish potato famine around 1850.

It's time to go on safari! Can students spot any of the diseases we have looked at on the sheet in their school grounds? Use the plant pathogen sheet to get students to record their sightings. This gives an opportunity to use the scientific method! you could collate your data as a class and plot it onto a bar chart.

Further Information

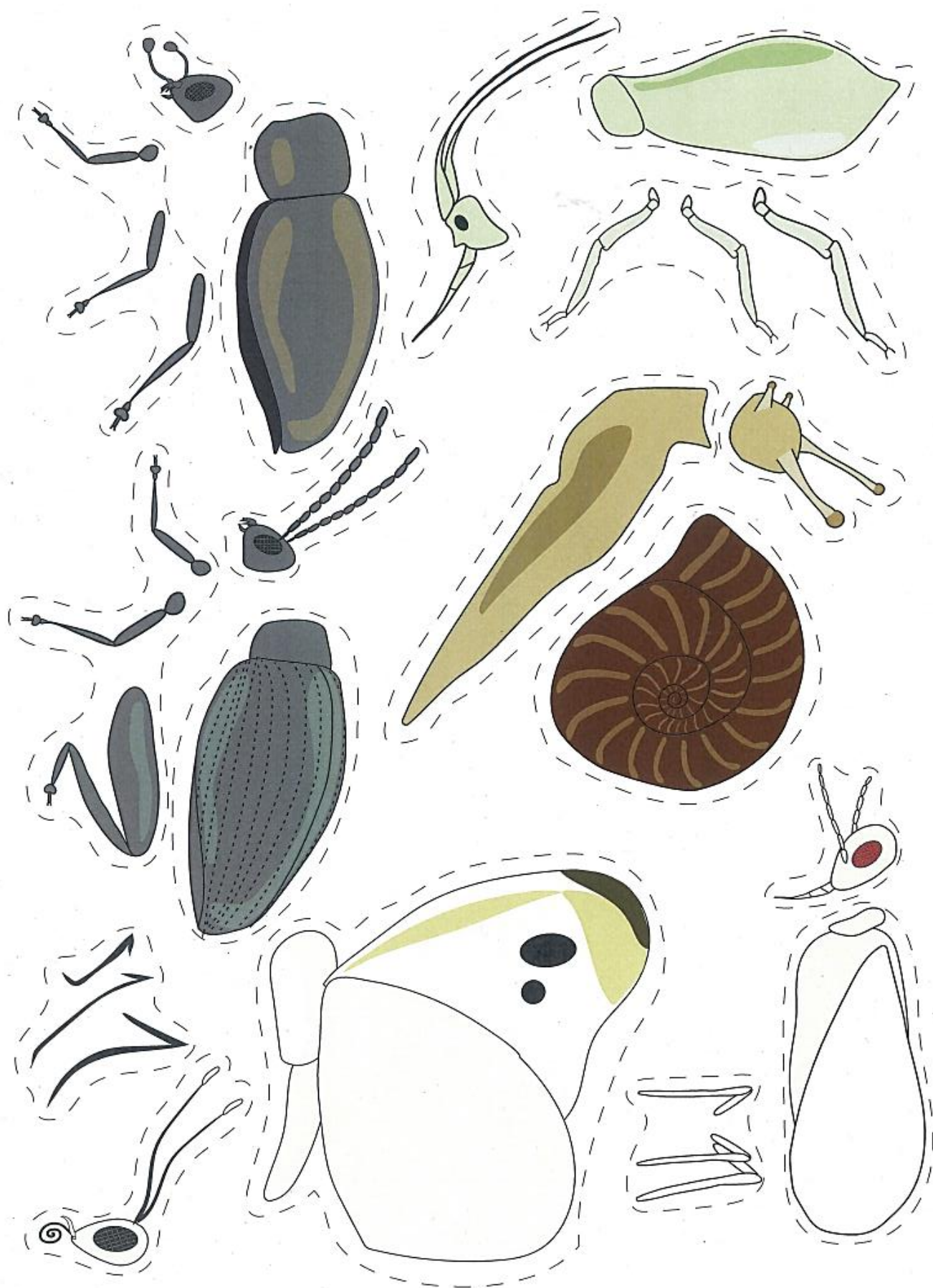
What is adaptation: <https://www.bbc.co.uk/bitesize/articles/zxgZy4j>

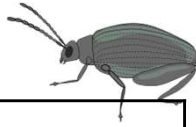
Insect Inspection: <https://www.bbc.co.uk/bitesize/articles/zbwvhcw>



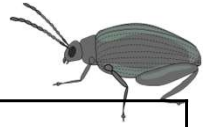
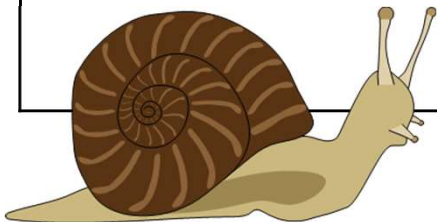
Build-a-Bug!

Cut along the dashed lines and use the parts to create your own bug.

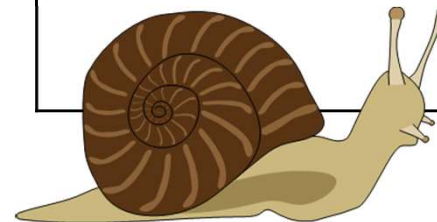




Favourite Food	
How it eats	
How it moves	
Special qualities	

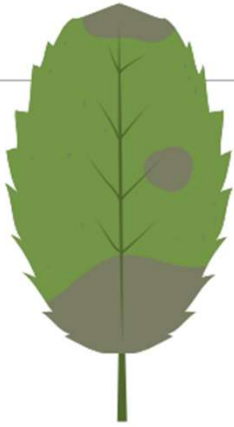


Favourite Food	
How it eats	
How it moves	
Special qualities	



Plant safari time!

Try to find each of the sick looking plants below! How many of these can you find outside?



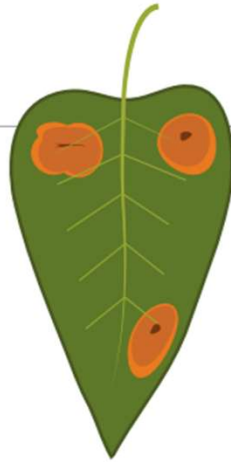
**Black spots
caused by
a fungus.**

Tick if you
spot this



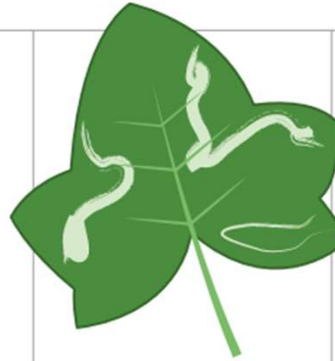
**Holes where
an insect has
chomped
a leaf.**

Tick if you
spot this



**Rusty
patches
caused by
a fungus.**

Tick if you
spot this



**Tunnels
made by an
insect called
a leaf miner.**

Tick if you
spot this



**Brown patches
with a yellow
outline caused
by bacteria.**

Tick if you
spot this



**Spiky yellow
patterns
caused by
a virus.**

Tick if you
spot this



**White powder
called mildew,
caused by
a fungus.**

Tick if you
spot this