

# Living things and their habitats

Making branching keys and classifying woodland invertebrates (minibeasts)

## **Key Learning**

- Living things can be grouped or classified in different ways according to their features.
- Branching keys are useful for classifying things, using descriptions of features.

#### I can...

- Make a branching key to classify a group of objects.
- Identify woodland **invertebrates** (minibeasts) using a branching key.

#### **Investigation** (pages 2-4):

You will need:

- paper and a pencil.
- one packet of liquorice allsorts.



(alternatively, use photos on page 9 or a biscuit variety pack)

Thank you to SAPS for this activity – more details on p.19 of their guide: www.saps.org.uk/attachments/article/1377/SAPS%20book%205%20-%20Grouping%20and%20Classification%20-%202016.pdf

#### Activity (pages 5-7):

- Use lined paper, a ruler and a pencil.
- Alternatively, print page 7.





## Asking questions...

### Creating questions about liquorice allsorts with yes/no answers

### Investigate...

- Spread out about 10 different liquorice allsorts (or cut out / draw images from page 9).
- Talk or think about their features:
  - Round or square?
  - Number of different colours?
  - Smooth or rough surface?



 Select 8-10 different sweets and try writing down some questions which will give the answer 'yes' for some sweets and the answer 'no' for the rest:

For example: Is it round? Is it pink? Is it smooth?

Test each question by sorting the sweets into two piles:

For example:

### Is it a square shape?







## Making a branching key

## Making a branching key with four liquorice allsorts

A **branching key** can be used to classify a group of items. It uses questions. The answer is 'yes' for some items and 'no' for the others.

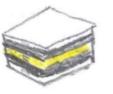
#### Making a branching key for 4 items

 Select two different square shaped sweets and two round shaped sweets.

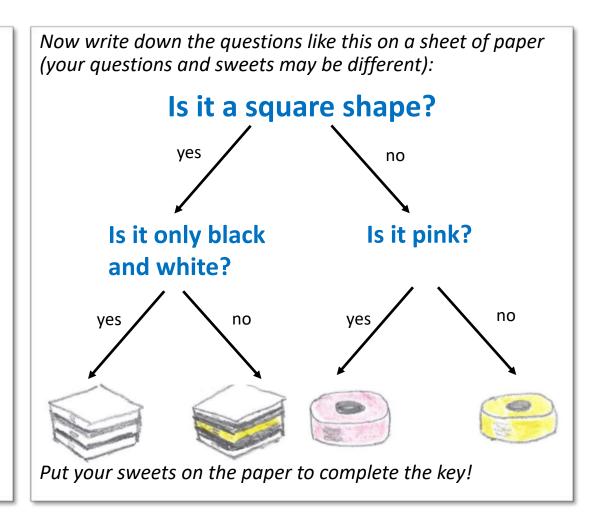








- Make your first question 'Is it a square shape?'
- Think of different questions to sort
  - (a) the square shapes.
  - (b) the round shapes.





# **Exploring animal features**

Which is the odd one out? (5 minutes)

- Look at these pictures.
- Which one do you think is the odd one out?
- Think about the animal features to help you.







- You may have chosen body colour, body shape, number of legs or another feature to describe the odd one out.
- The features of animals can be used to create branching key questions with yes/no answers, such as:
  - Is it a brown colour?
  - Does it have a long thin body?
  - Does it have any legs?



# Making a branching key

Make a branching key for woodland invertebrates using questions about their features

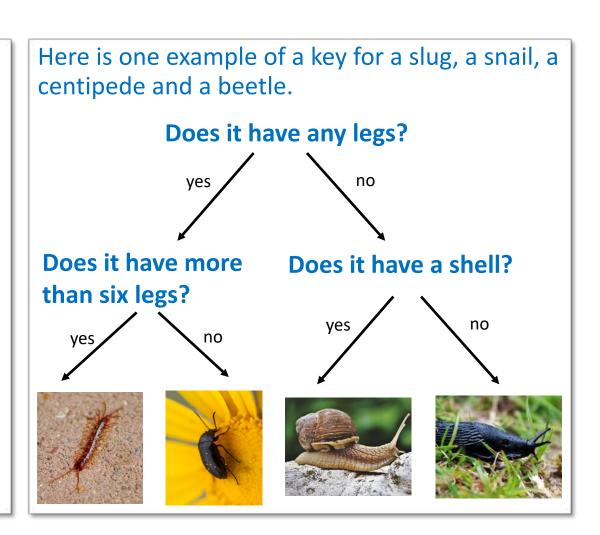
Think about and jot down some questions you could ask when making a key for these four animals.



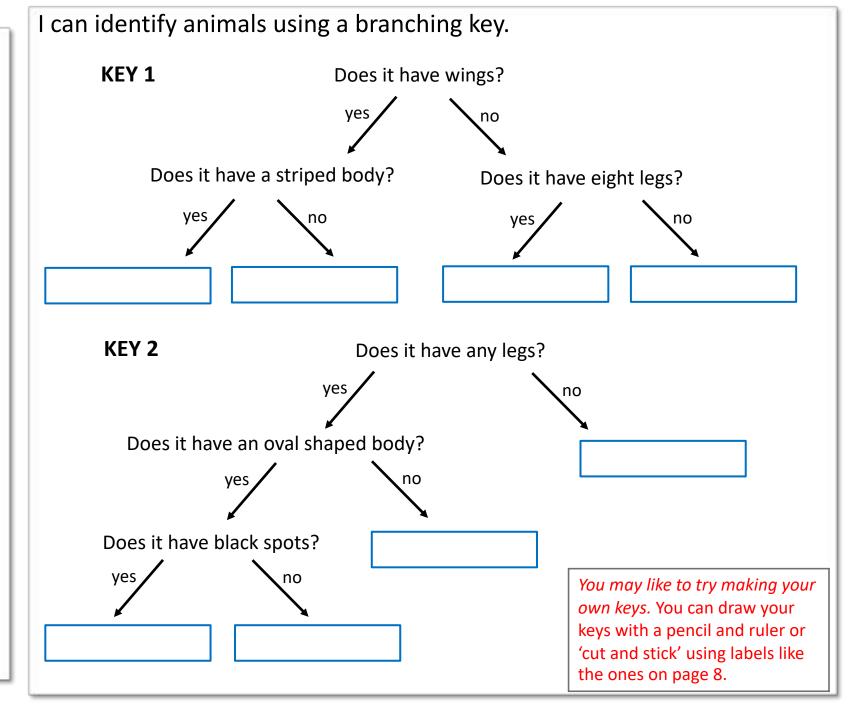














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### Pictures of some liquorice allsorts to print and cut out - or to draw yourself!





















Alternatively, try making your key using a mixture of biscuits from a variety pack.

## **Glossary of terms**

Classify: Living things can be grouped or classified in different ways according to their features.

Branching key: A branching key can be used to identify different animals. The key asks questions based on features of the animals, where the answer is 'yes' or 'no'.

For example, the question 'Does it have a shell?' is 'yes' for a snail and 'no' for a slug.





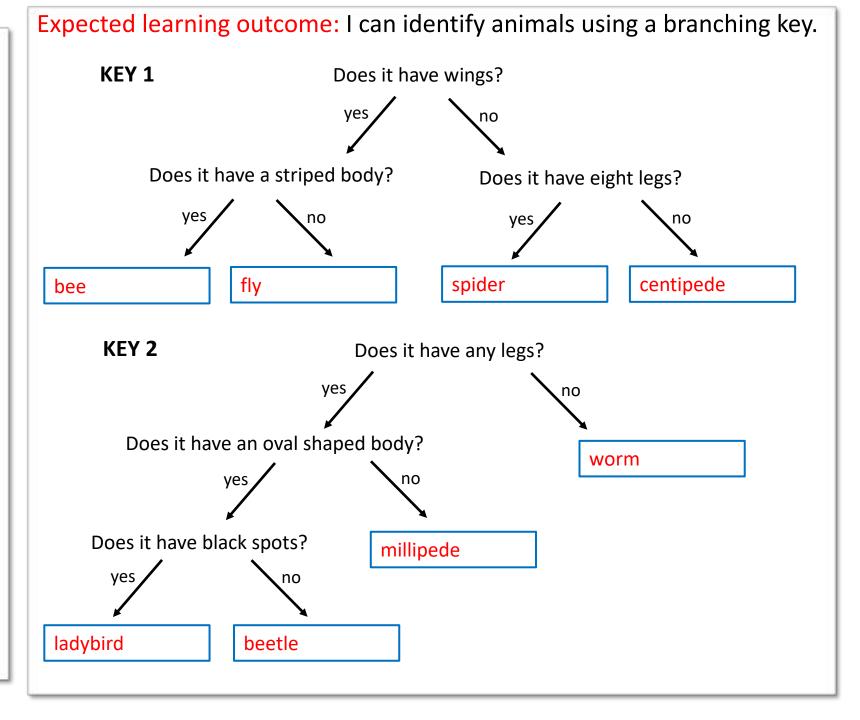
Feature: The features of an animal are distinctive aspects of their appearance.

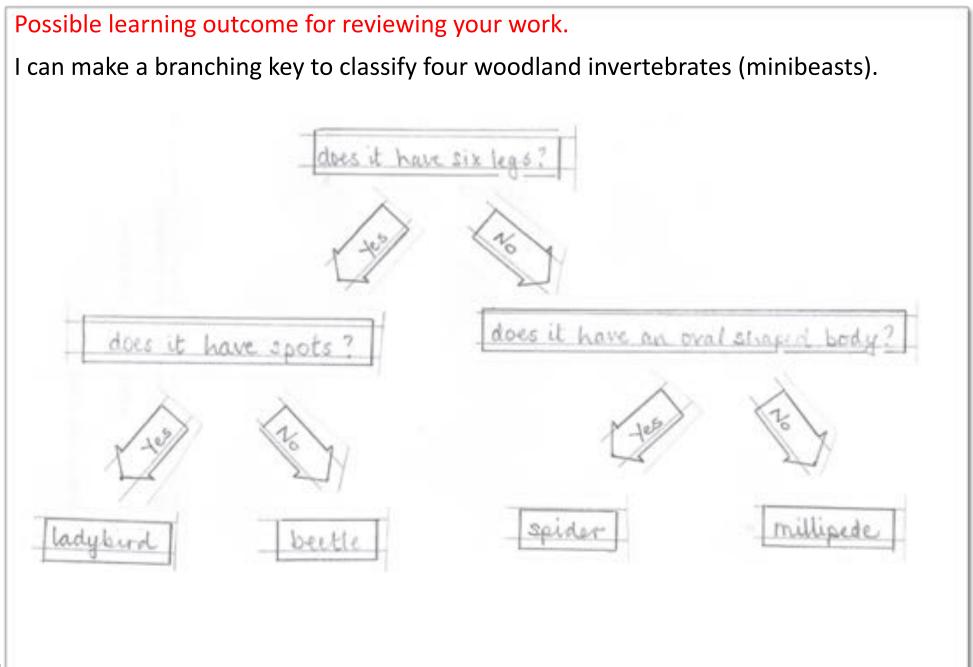
For example, the features of this bee include two wings, six legs, two antennae and a striped yellow and black body.



**Invertebrate:** An **invertebrate** is an animal without a backbone. Small woodland invertebrates are sometimes called **minibeasts**.



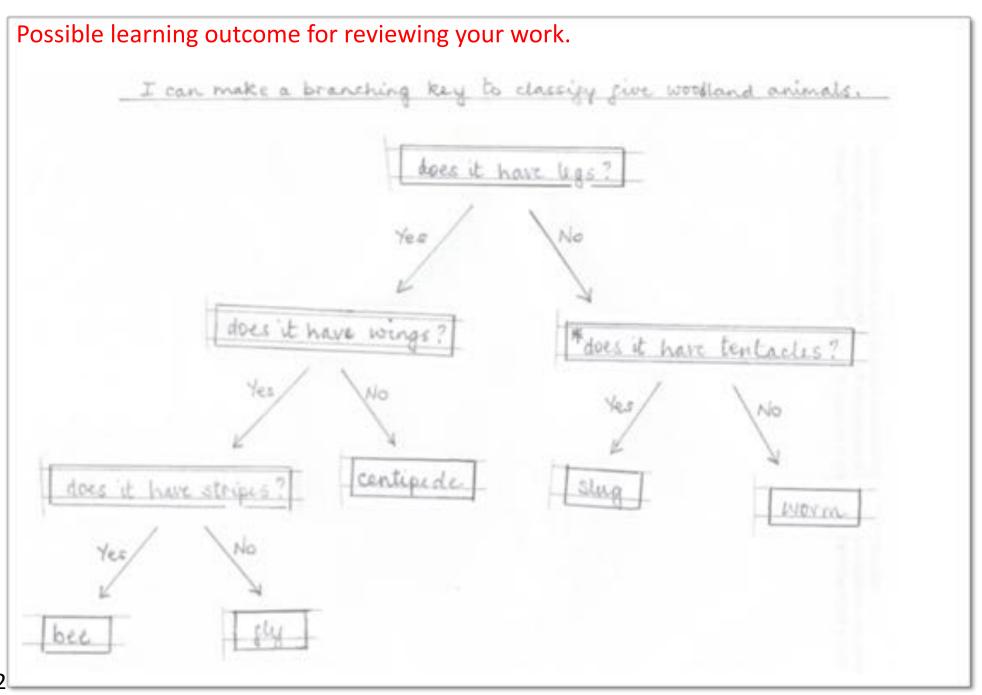




You may like to add pictures of animals to the key.

Your key may look different. There are many valid outcomes (another example on page 13).

You can use many different questions.
Make sure each question can be answered by looking carefully at the features of the animal.



This is an example for five animals. There are many possible ways of arranging the questions to make a valid key.

You can cut out or make labels and move them around to make alternative keys.

You may like to record your work by taking photographs.