

**Science - Year 6**

**Living Things and their Habitats – Block 6LvH**

# **Classification Connoisseurs**

Session 3

Resource pack

## Suggested sweets

- **Liquorice Allsorts**
- **Haribo™ or other jelly sweets**
- **Cadbury's Marvellous Mix-ups™**
- **Smarties™**
- **Fruit Pastilles™**

## Sweet classification guidance (students)

You have a bowl of sweets which need to be sorted and classified (try not to cause any extinctions by eating the specimens!).

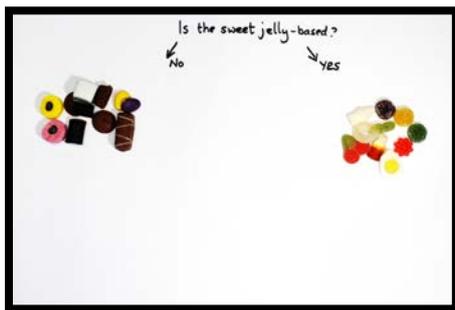
You will need to sort the sweets according to clear characteristics that can split the specimens into two new groups.

Think of some questions that may help you to sort and split the sweets. Think about the following characteristics or features:

- Main ingredient
- Structure (layered, encased in a shell)
- Shape
- Size
- Colour

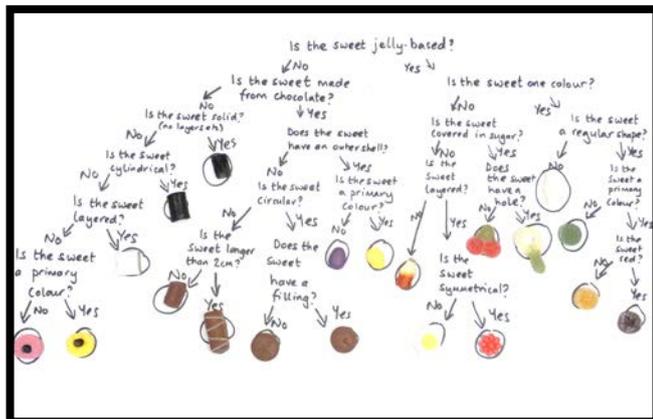
Make your questions interesting and ensure that they always need a 'yes'/'no' answer, for example, '*Is the sweet a primary colour?*'

Use your large sheet of paper to organise your sweets and to record your classification system a bit like this:



As you sort your sweets add in 'branches' that are labelled to show each feature and put a question in where the sweets have just been (e.g. your question might be, '*Is the sweet jelly based?*' with a 'yes' and 'no' branch off).

Once your sweets have been fully sorted your sheet should look something like this:



Now see if you can come up with some common names for each 'species' using words that relate to the features used to classify to that point, (challenge: you could try to create scientific names by making them sound Latin, e.g. *Chocolus shellus*).

## Sweet classification guidance (teacher-facing to support LA)

Start with a bowl of sweets (you can use a smaller variety of sweets, if needed, to make the activity more straightforward) and explain that they need to be classified by sorting them into groups. In order to sort them the children need to come up with questions that will split the sweets into two new groups.

Explain that children will need to sort the sweets according to clear characteristics that can split the specimens into two new groups.

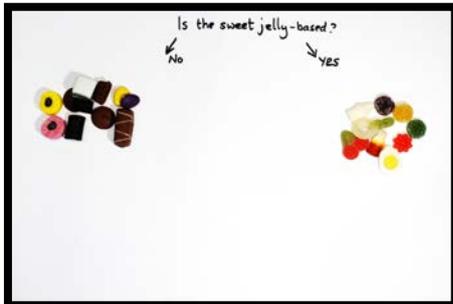
Explain that the questions need 'yes' or 'no' answers.

Help children to think of some questions that may help them to sort and split the sweets. Think about the following characteristics or features:

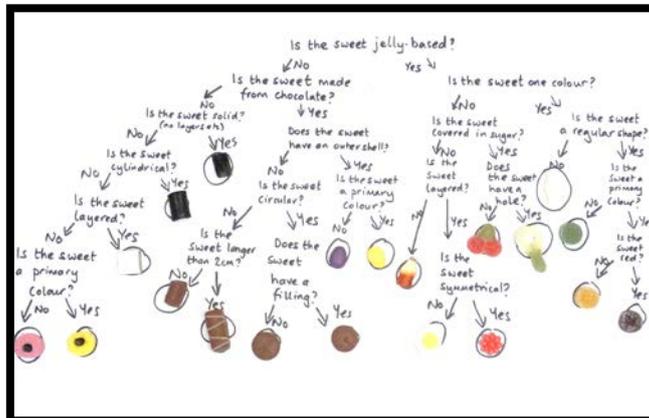
- Main ingredient – *Is the sweet jelly-based?*
- Structure – *Is the sweet of one solid form (no layers or shells)?*
- Shape – *Is the shape regular or irregular?*
- Size – *Is the sweet larger than 1cm?*
- Colour – *Is the sweet a primary colour?*

Help children to decide on a way to split the sweets on an A2 piece of paper or card. As they sort your sweets get them to add in 'branches' that are labelled to show each feature or characteristic

and put a question in where the sweets have just been.



Once the sweets have been fully sorted the sheet should look something like this:



Help the children to come up with some common names for each 'species' using words that relate to the features used to classify to that point.

Birds to classify



Blackbird



Chaffinch



Great tit



Blue tit



Grey heron



Puffin



Magpie



Yellowhammer



Bullfinch



Woodpigeon

## Butterflies to classify



Common blue



Small blue



Clouded yellow



Large white



Swallowtail



Orange tip



Peacock



Monarch



Marbled white



Red admiral

## Bumblebees to classify

### Buff-tailed bumblebee

*Bombus terrestris*



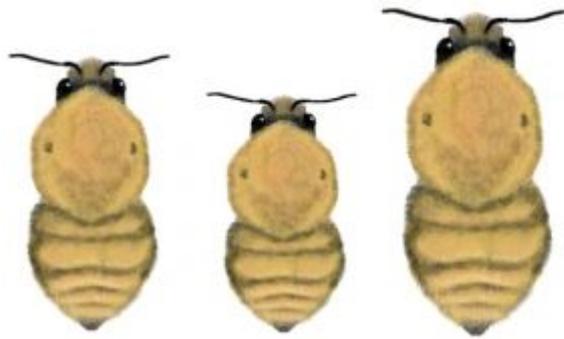
Male

Worker

Queen

### Common carder bee

*Bombus pascuorum*



Male

Worker

Queen

### Early bumblebee

*Bombus pratorum*



Male

Worker

Queen

### Garden bumblebee

*Bombus hortorum*



Male

Worker

Queen

Face

**Heath bumblebee**

*Bombus jonellus*



Male      Worker      Queen      Face

**Red-tailed bumblebee**

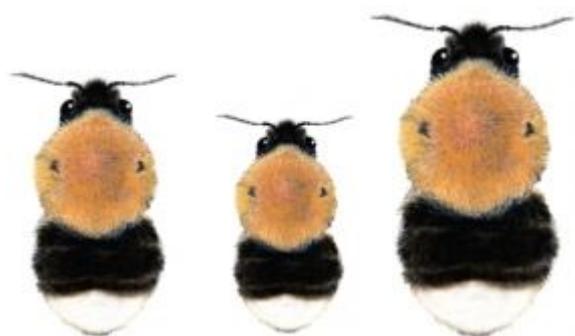
*Bombus lapidarius*



Male      Worker      Queen

**Tree bumblebee**

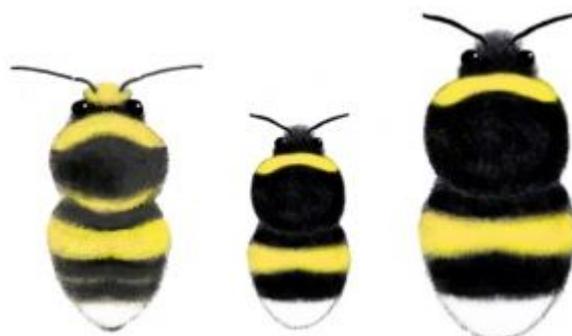
*Bombus hypnorum*



Male      Worker      Queen

**White-tailed bumblebee**

*Bombus lucorum*



Male      Worker      Queen