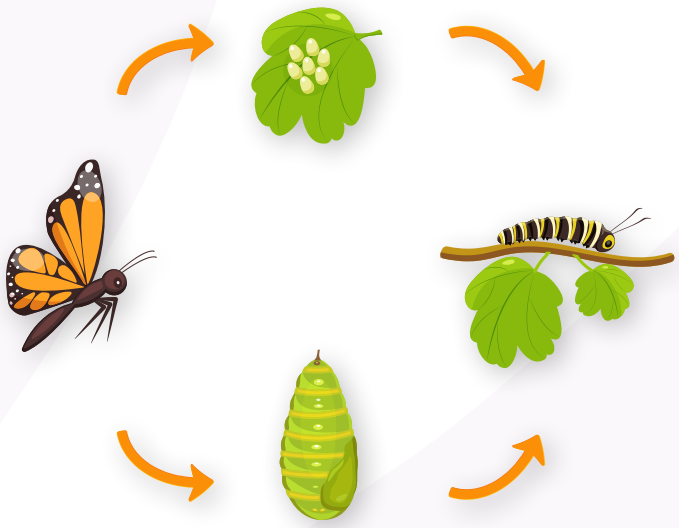
Free British Science Week Activities

British Science Week is a national ten-day celebration of STEM subjects coordinated by the British Science Association. You can download a Primary Pack of resources from their **website**.

This year, British Science Week is being held from 6th-15th March, and the theme is 'Curiosity: What's your question?'. To promote participation in British Science Week, enjoy free access to these activities and resources.

How does a caterpillar turn into a butterfly?

Explore how caterpillars change into butterflies through this **digital leaflet template.** An information screen is included with information on the life cycle, and students can add images and diagrams to explain the process.



Younger students can colour and label this image of a butterfly life cycle.

Open Activity

A printable worksheet for butterfly lifecycles is also included in the back of this pack.

Skip to Worksheet

What happens to food when we eat it?

Travel along the interesting journey that food makes through the human body with these activities. Write about the human digestive system in this **template,** with accompanying information for children on the help screen.

Students can also label the parts of the digestive system in this **quiz,** or print out the worksheet at the back of this pack.

Skip to Worksheet

How do we hear?

Conduct experiments on sound – hear what happens when bottles are filled with different amounts of water and then tapped, planning your experiment and entering results into our premade **template.** Or, investigate which material will absorb sound best, using the printable worksheet at the back of the pack.

Skip to Worksheet

Children can also label the parts of the ear in this **interactive quiz.**

Date_____ Name_____

Life Cycle of a Butterfly

Key vocabulary
metamorphosis
larva
pupa
chrysalis
exoskeleton
eggs

Chrysalis

Adult

Eggs

Caterpillar

Describe each stage of the Life Cycle of a Butterfly.

Eggs	Caterpillar	Chrysalis	Butterfly
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Life Cycle of a Butterfly (Answers)

In some questions, alternative answers may be acceptable. The likeliest answers are given below. If questions have more than one answer, teachers should use their own judgement when marking

Life Cycle of a Butterfly

Key vocabulary

metamorphosis

larva

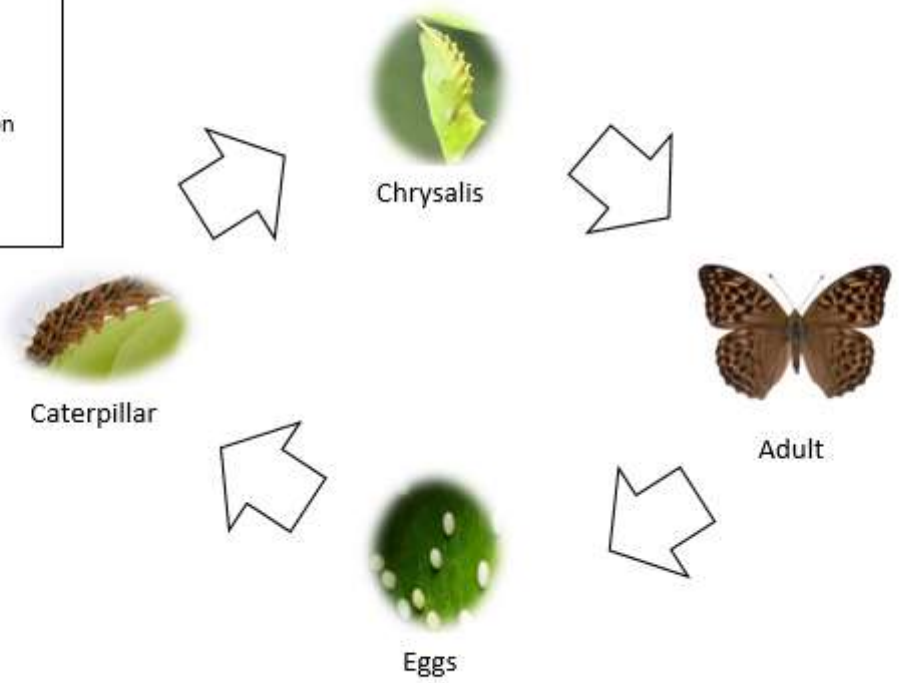
pupa

chrysalis

exoskeleton

eggs

lay



Describe each stage of the Lifecycle of a Butterfly.

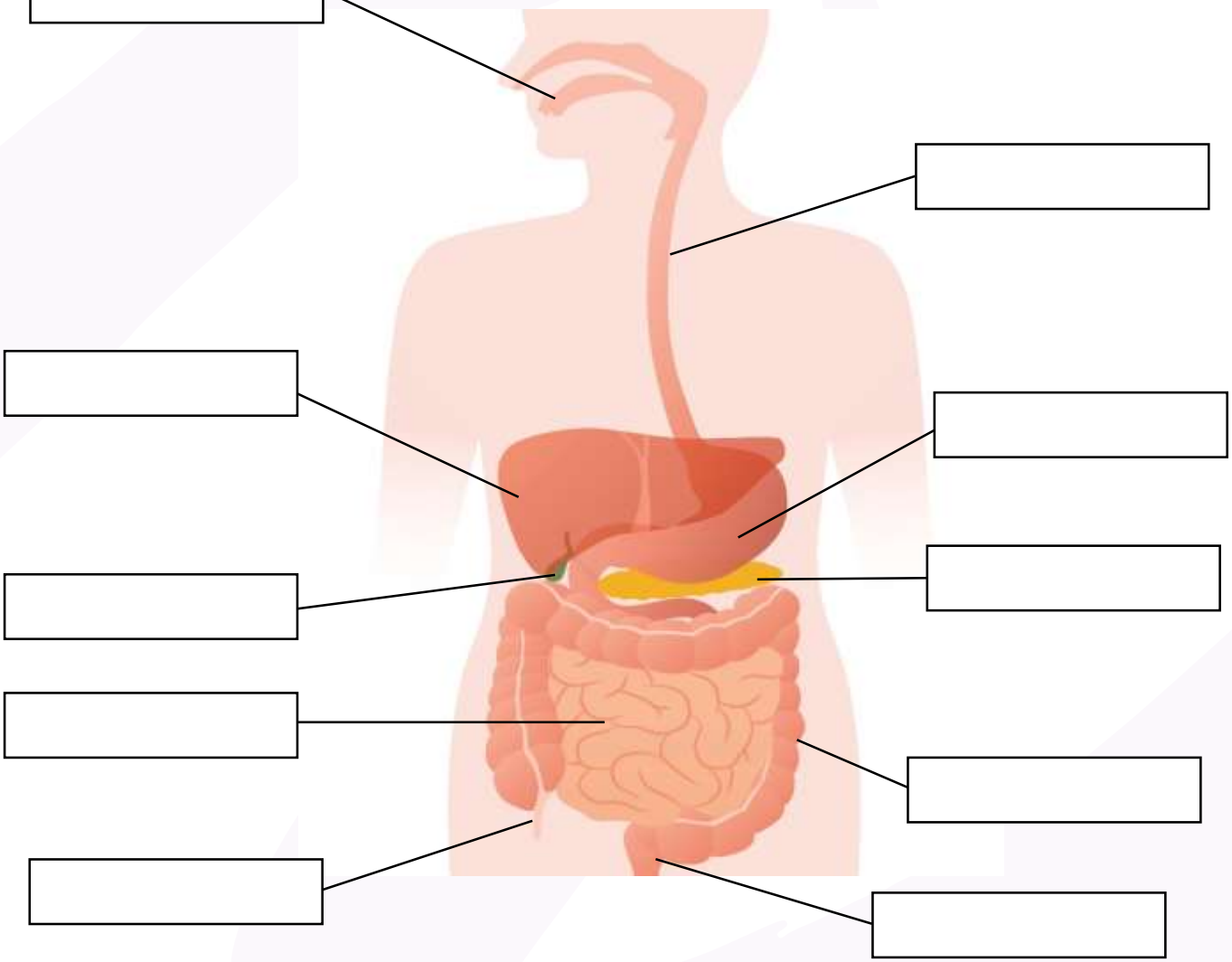
Eggs	Caterpillar	Chrysalis	Butterfly
A female butterfly locates suitable plants to lay her eggs. The suitable plant will be the caterpillars' food when they hatch from the eggs.	A caterpillar is born. It is incredibly hungry and eats flowers and leaves. It will grow at a phenomenal rate.	Once the caterpillar has stopped growing, it will make a chrysalis. The chrysalis will protect it from predators while it changes (metamorphosis) into a butterfly.	A butterfly emerges from the chrysalis, it dries itself and is ready to fly away. A female butterfly will start the whole cycle again by laying eggs on a suitable plant.

Date_____ Name_____

Digestion

Use the vocabulary box to help you label the main parts of the human digestive system.

Large Intestine • Anus • Oesophagus Liver • Small Intestine • Mouth • Stomach Pancreas • Appendix • Gall Bladder



Describe each function of the major parts of the digestive system.

Liver

Large intestine

Stomach

Small Intestine

Mouth

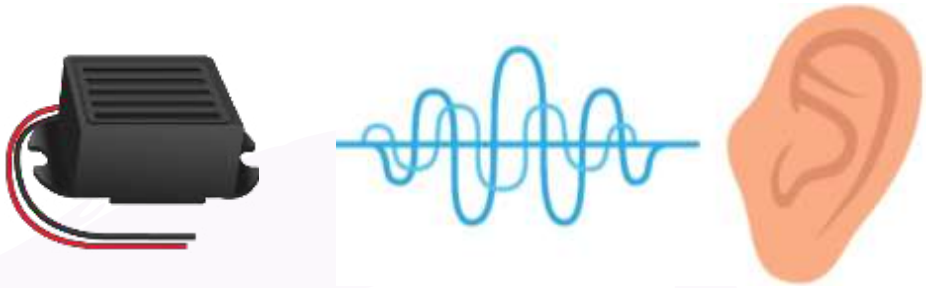
Oesophagus

Date_____ Name_____

Absorbing a source of sound

Predict:

Can you predict which material will absorb sound from a buzzer the best when it's wrapped around it?



Material	Tick if absorbent	If you ticked absorbent then circle the materials absorbency (5 = most absorbent)				
Tinfoil	☐	1	2	3	4	5
Bubble wrap	☐	1	2	3	4	5
Paper	☐	1	2	3	4	5
Carpet	☐	1	2	3	4	5
Plastic Bag	☐	1	2	3	4	5

Reason about your predictions:

Which material do you predict is most effective at absorbing sound and why do you think this? Use scientific understanding to support your answer.

_____

_____

_____

Which material do you predict is least effective at absorbing sound and why do you think this? Use scientific understanding to support your answer.

_____

_____

_____

Setting up a test:

You might like to set up a test in your classroom to check whether your predictions were correct. Remember it's important to ensure your results from your observations are fair results. Consider how you would set this up to make this as fair as possible. Ensure you think carefully about how you will measure the sound. What equipment might you need?

Method:

Results: