8D Unicellular Organisms - Revision Worksheet

What is a **unicellular organism**?

……

Fill in the following table with a ✓ or a ✗ :

	Prokaryotes	Protists	Fungi	Plants	Animals
Unicellular or Multicellular					
Cytoplasm?					
Cell Membrane?					
Nucleus?					
Mitochondria?					
Cell Wall?					
Chloroplasts?					

Why are **viruses** not considered **living organisms**?

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Place the following in order of size: **yeast**, **human**, **cold virus**, **multicellular fungus**

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Describe what **diffusion** is and what substances need to be taken in by **unicellular organisms**.

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Draw a diagram to show how **budding** occurs in **microscopic fungi**:

Aerobic respiration of **yeast** is used in **baking**, what is the **word equation** for this:

…… + …… → …… + ……

What does the **respiration** of **yeast** do to the **dough**?

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What conditions does **yeast** need to **grow**?

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What do we call the **anaerobic respiration** of **microorganisms**?

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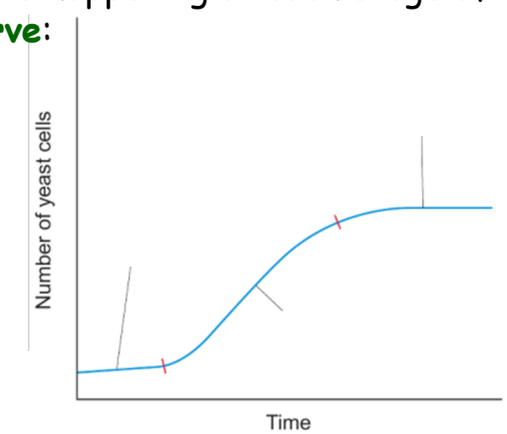
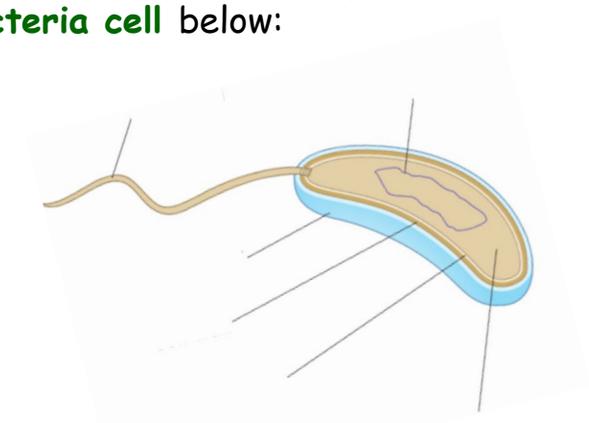
Write the **word equation** for **anaerobic respiration**:

…… → …… + ……

Label what is happening at each stage of this **growth curve**:



Label the different components of the **bacteria cell** below:



How do **bacteria asexually reproduce**?

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Anaerobic respiration of **bacteria** produced **lactic acid**. Give two uses of this process:

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What does the **flagella** do?

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What type of **unicellular organisms** are ***Amoeba*** and ***Paramecium***? ……

Algae use **photosynthesis**, write out the **word equation** for this process:

…… + …… → …… + ……

Draw a **food chain** showing the relationship between **algae**, **mussels**, **octopus** and **shark**.

What is **chlorophyll** and what does it do?

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What is a **decomposer**?

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Sketch a **pyramid of numbers** for the **food chain** you drew on the previous side:

Draw a diagram to show how **decomposers** use **enzymes** to **break down** substances:

Explain the importance of **decomposers** within an **ecosystem**:

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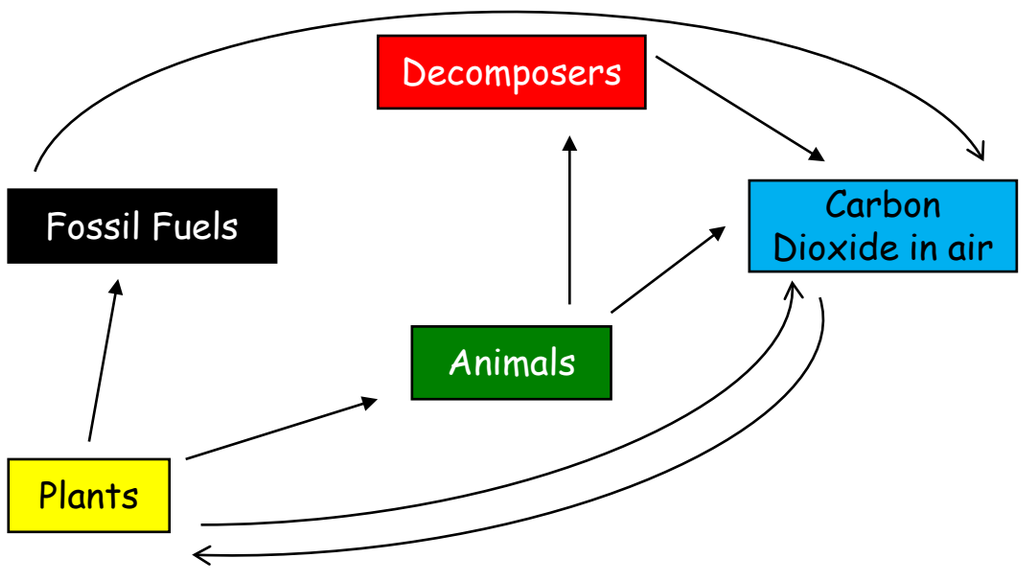
Label the different stages involved in the **Carbon Cycle**:



What are **life processes** do all **organisms** carry out?

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Rate the following on how well you think you can do them:



I can…

- ☐ Use cell features to identify members of different kingdoms.
- ☐ Explain differences between unicellular and multicellular organisms.
- ☐ Explain how yeasts are used in brewing and baking.
- ☐ Describe how yeasts reproduce and the factors that limit this.
- ☐ Use modal verbs to express degrees of certainty.
- ☐ Explain why anaerobic bacteria are used to make yoghurt and cheese.
- ☐ Describe the functions of the parts of a bacterial cell.
- ☐ Describe how bacteria reproduce.
- ☐ Use a statement key.
- ☐ Interpret and draw pie charts.
- ☐ Describe the functions of the common parts of protoctist cells.
- ☐ Describe how algae make their own food, and explain the importance of this.
- ☐ Explain the importance of decomposers.
- ☐ Model the recycling of carbon in an ecosystem using the carbon cycle.