

# Edexcel Biology IGCSE

## 1.b - Variety of Living Organisms

### Flashcards



Give 4 different types of eukaryotic organism



Give 4 different types of eukaryotic organism

- Animal
- Plant
- Fungi
- Protoctist



Give 3 differences between plant and animal cells



## Give 3 differences between plant and animal cells

- Plant cells have a cell wall whereas animal cells do not
- Plant cells have a permanent vacuole whereas animal cells do not
- Plant cells have chloroplasts and are able to photosynthesise whereas animal cells do not



# Describe the structure of fungi



## Describe the structure of fungi

- Chitin cell wall
- Often multinucleated
- They contain a mycelium which is made of hyphae threads



# How do fungi feed?





## How do fungi feed?

They are **saprotrophic** so they secrete enzymes that break down their food outside of their cells and then they absorb the nutrients.



Are prokaryotic cells multicellular or unicellular?



Are prokaryotic cells multicellular or unicellular?

Prokaryotic cells are unicellular



Give 5 features of prokaryotic cells



## Give 5 features of prokaryotic cells

- Cell membrane
- Cell wall
- Cytoplasm
- Plasmid loops of DNA
- No nucleus but large DNA loop instead



# What is a pathogen?



# What is a pathogen?

## A disease-causing microorganism



Give 4 different types of pathogen





# Give 4 different types of pathogen

- Bacteria
- Fungi
- Viruses
- Protoctists



# Describe the structure of a virus



## Describe the structure of a virus

- Protein husk
- Contain nucleic acid (DNA or RNA)



Give 3 examples of viruses



# Give 3 examples of viruses

- Tobacco mosaic virus (TMV)
- Human immunodeficiency virus (HIV)
- Influenza



Give two different species of bacteria



Give two different species of bacteria

Lactobacillus bulgaricus - Used in the production of yoghurt from milk.

Pneumococcus - Bacterium that causes pneumonia.

