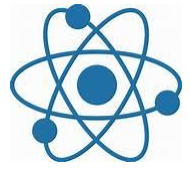


Biology Paper 1

- Cell Biology
- Organisation
- Infection and Response
- Bioenergetics

What are the threshold concepts for Biology Paper 1?



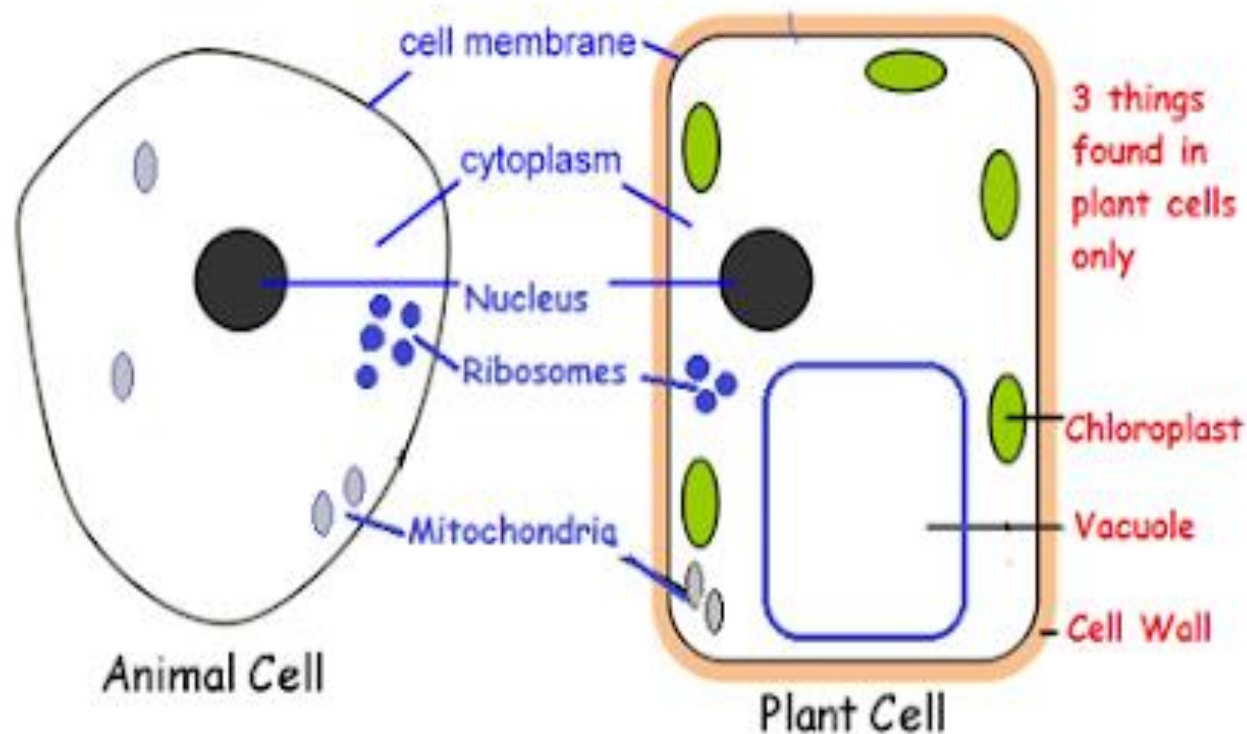
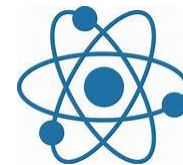


Biology Paper 1

- Cell Biology
- Organisation
- Infection and Response
- Bioenergetics

What are the threshold concepts for Biology Paper 1?





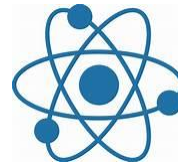
What is the function of the organelle?

Explain why cell X has more of a certain organelle

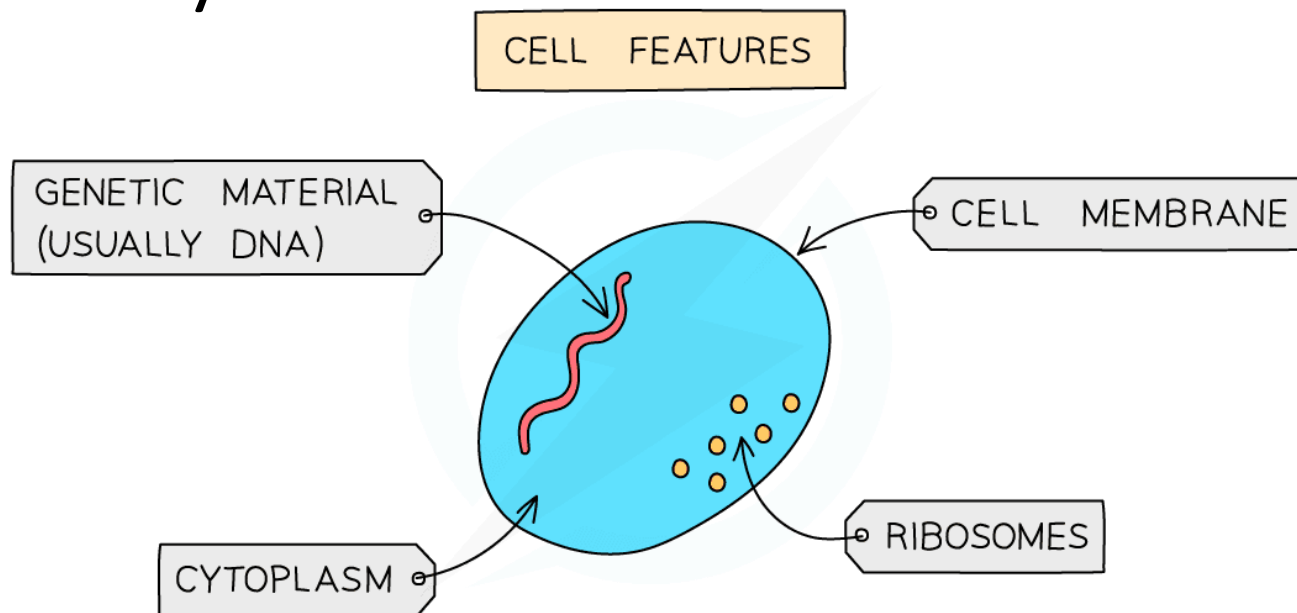
Compare plant and animal cells

What are the threshold concepts for Biology Paper 1?





Prokaryotes



Copyright © Save My Exams. All Rights Reserved

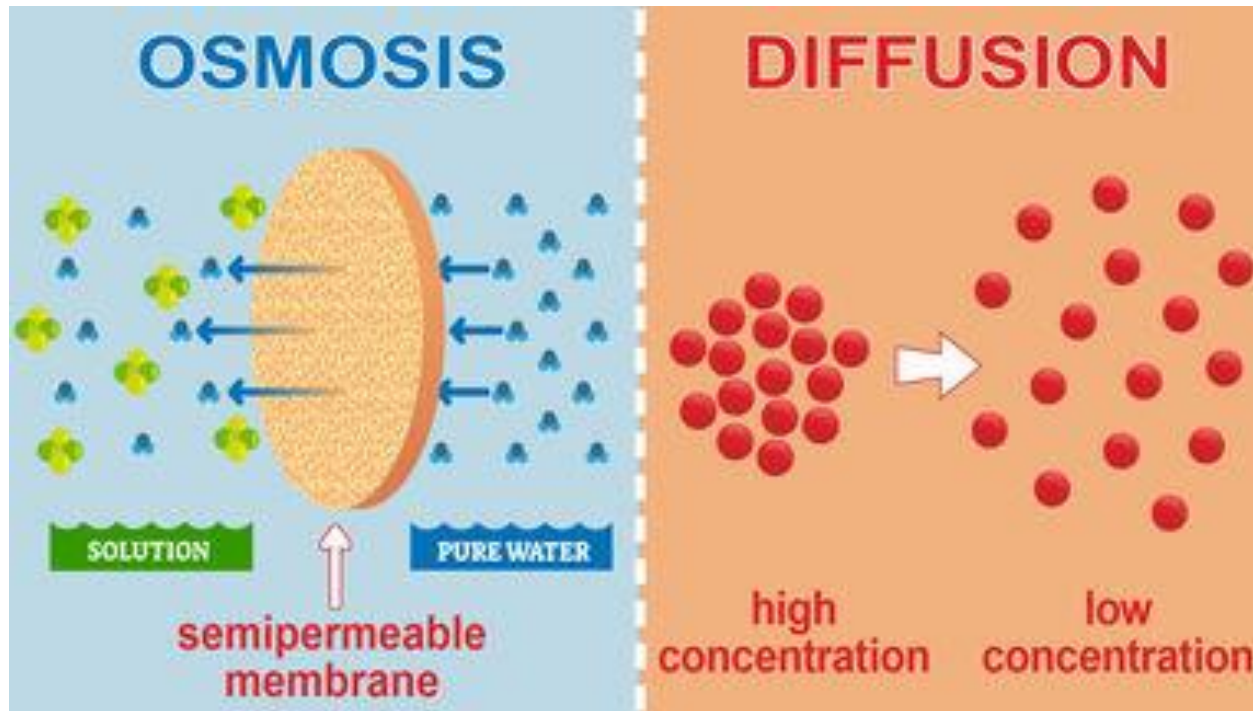
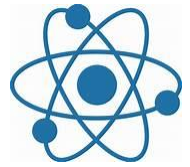


Compare prokaryotes and eukaryotes

What are the threshold concepts for Biology Paper 1?



Diffusion and Osmosis



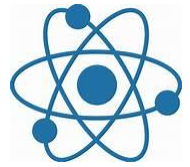
What is the process of osmosis?

What is the process of diffusion?

What would something lose mass/gain mass if put in water?

What are the threshold concepts for Biology Paper 1?





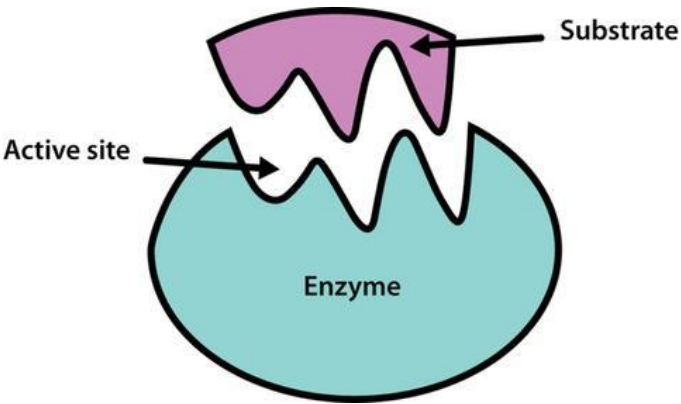
Biology Paper 1

- Cell Biology
- **Organisation**
- Infection and Response
- Bioenergetics

What are the threshold concepts for Biology Paper 1?



Digestion



- ☐ Enzymes
- ☐ Active site
- ☐ Substrate
- ☐ Complimentary
- ☐ Denature
- ☐ pH
- ☐ Temperature

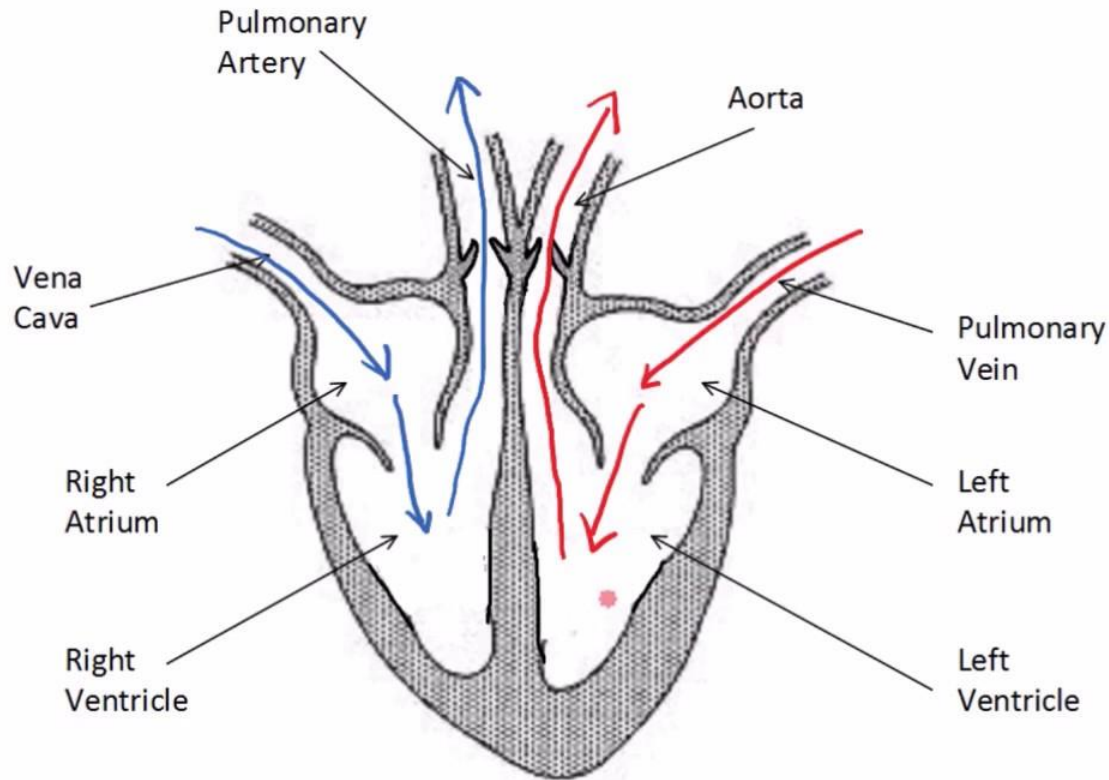
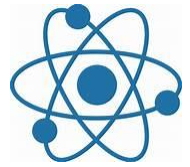
Enzyme	Where is it made?	Where is it found?	Breaks down?	Into?
<i>Amylase</i>	Salivary glands, small intestine, pancreas	Mouth, Small intestine	Starch	Simple sugars
<i>Protease</i>	Stomach, small intestine, pancreas	Stomach Small intestine	Protein	Amino Acids
<i>Lipase</i>	small intestine, pancreas	Small intestine	Fats	Fatty acids

How is fats/carbohydrates/protein digested?

How would you test the effects of pH/Temperature on enzyme action?



Heart



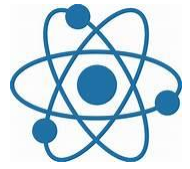
Explain the effects of exercise on heart rate

Label the flow of blood through the heart

Explain the effects/causes of CHD

What are the threshold concepts for Biology Paper 1?



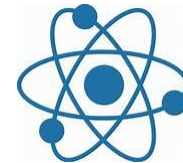


Biology Paper 1

- Cell Biology
- Organisation
- Infection and Response
- Bioenergetics

What are the threshold concepts for Biology Paper 1?





Gonorrhoea (bacteria)	Salmonella (bacteria)	
Measles (virus)	HIV (Virus)	Tobacco mosaic virus (Virus)
Malaria (Protista)		Rose black spot (fungus)

White blood cells:

Engulf

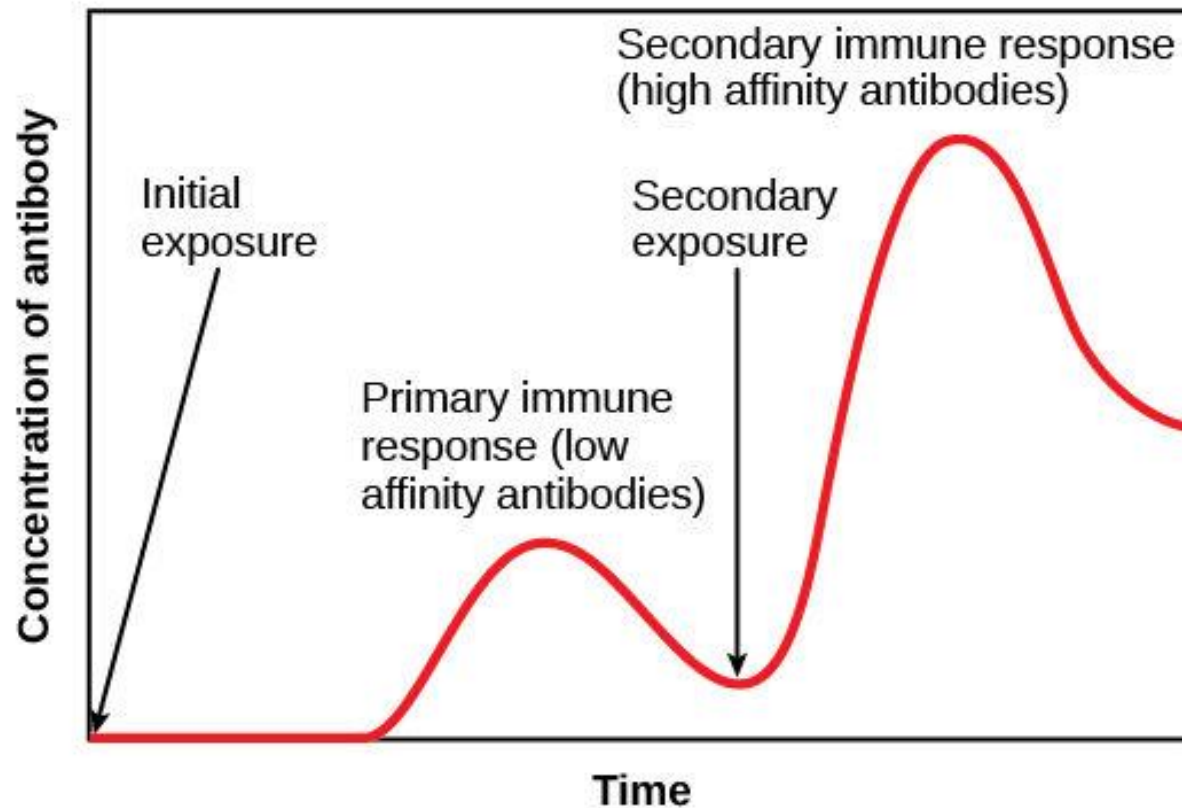
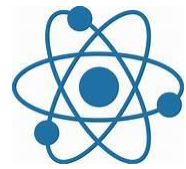
Antitoxins

Antibodies

Give the:
Symptoms
Causes
Treatments
For a named disease

Describe how the immune system works

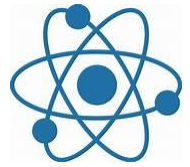




Describe immunity in terms of antibody response

What are the threshold concepts for Biology Paper 1?





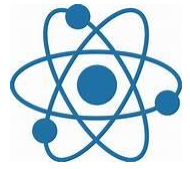
Biology Paper 1

- Cell Biology
- Organisation
- Infection and Response
- **Bioenergetics**

What are the threshold concepts for Biology Paper 1?



Bioenergetics



Respiration and photosynthesis (chemical reactions)

Aerobic respiration (animal/Yeast)

Glucose + Oxygen → Carbon dioxide + Water

Anaerobic (animals)

Glucose → Lactic acid

Anaerobic (yeast)

Glucose → Ethanol + Carbon dioxide

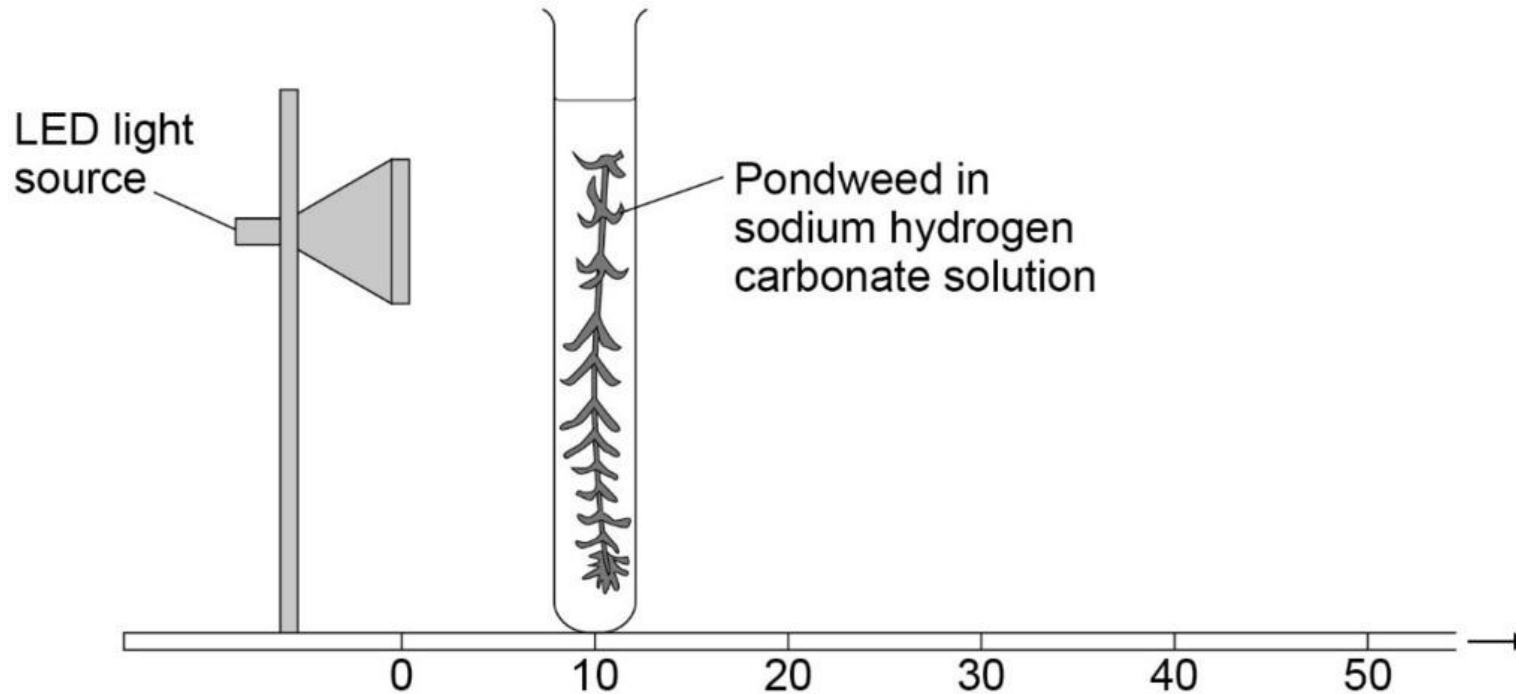
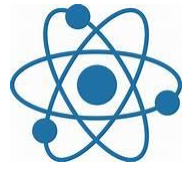
Photosynthesis

Carbon dioxide + Water → Glucose + Oxygen

What are the threshold concepts for Biology Paper 1?



Photosynthesis Required Practical



Independent— I change

Dependent- The results you measure

Control- Keep the same

What are the threshold concepts for Biology Paper 1?

