



# BIOLOGY

## Year 10 Summer 2025 Revision Guide

The exam will last 60 minutes and cover all year 10 material as shown below.

Topic	Learning Outcomes required
Diet & Digestion	All
Blood & Circulation	1-15 (no CPR or AED)
Photosynthesis	1-22

To help you study, a few labelling/recall exercises are included but do ensure you study all LOs listed above.

### Topic 1. Diet and Digestion

Salivary gland

Stomach

Gall Bladder

Small intestine (ileum)

Large intestine (colon)

Rectum

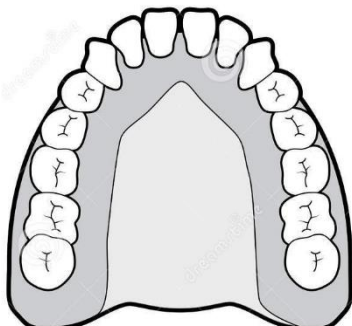
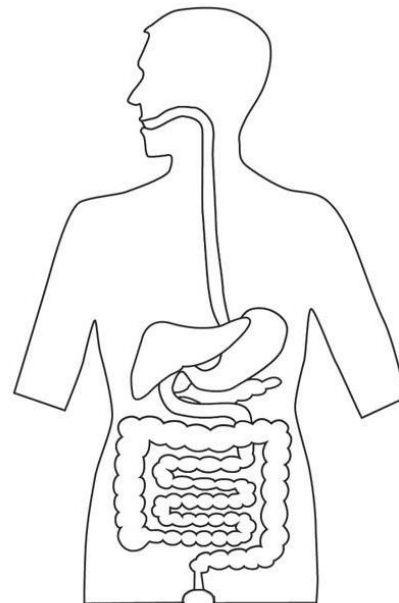
Peristalsis

Oesophagus

Liver

Pancreas

Anus



Incisor

Canine

Premolar

Molar

Enamel

Dentine

Pulp cavity

Nerves

Blood vessels

Cementum

Gum/Root/Crown



Complete the table		Colour of reagent	Positive test result	Negative test result
Food Test				
Iodine for starch			blue-black	
Benedict's for sugar				light (no change)
Ethanol for lipid	colourless		cloudy emulsion	colourless (no change)
Biuret for protein	blue			blue (no change)

## Topic 2. Blood & Circulation

Right and Left Atrium

Right and Left Ventricle

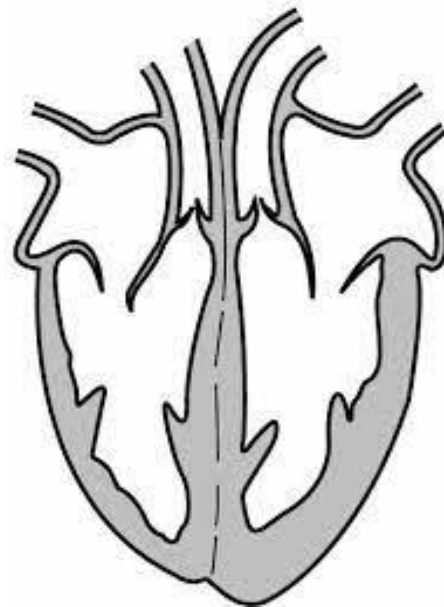
Vena cava

Pulmonary Artery

Pulmonary Vein

Aorta

Coronary Artery



Red blood cells

White blood cells

Plasma

Platelets



List the key features of these blood vessels.



Artery



Vein



Capillary

## Topic 3. Photosynthesis

Word equation

Balanced **chemical** equation

List the steps involved in **testing a leaf for starch** and the reason for each.

1

2

3

4



A **destarched** plant:

1 What is it?

2. How do you destarch a plant?

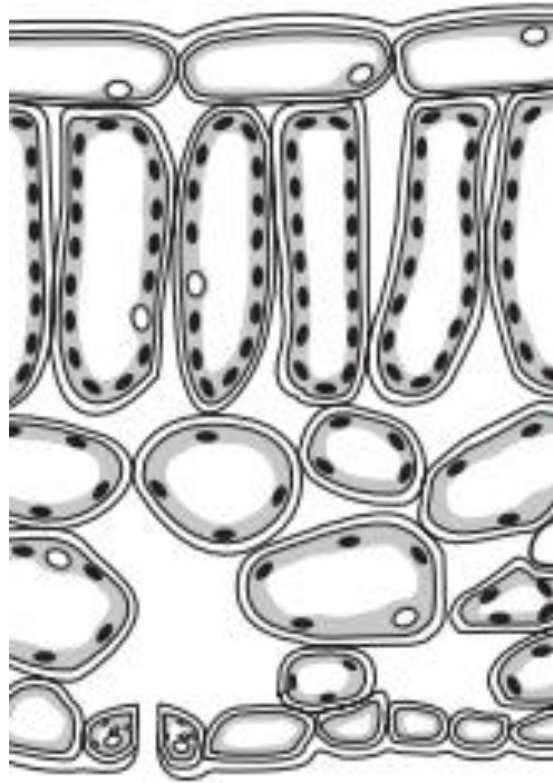
3. Why use a destarched plant in experiments?

What is a variegated leaf?

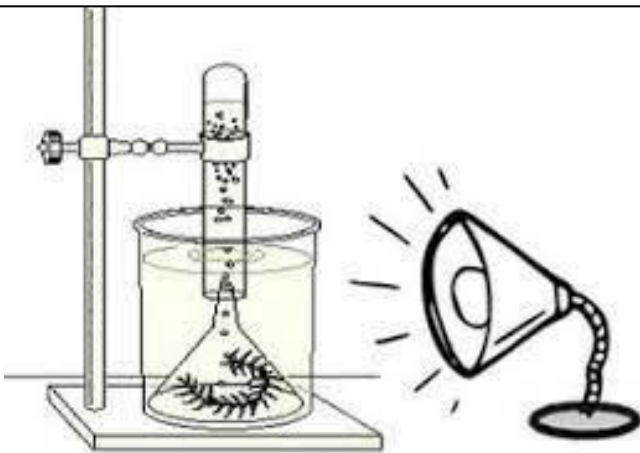
Name two chemicals that will absorb carbon dioxide.



label the leaf diagram and list the function of each part and how it is adapted.



Explain the purpose of this experiment.



Remember to bring a pen, pencil, rubber, ruler and calculator to the exam.