

# Y7 SCIENCE HOMEWORK

## SUMMER 1, 2022

Draw and label an animal and plant cell

What is the total magnification of a microscope with a x10 objective lens and a x4 eyepiece lens?

Why are root hair cells not green?

What is the role of roots in a plant?

What is the function of the following organelles?

Nucleus

Cell membrane

Cytoplasm

**EXTENDED WRITING WORK:**

CH1: Describe the difference between the terms resolution and magnification in terms of microscopy.

CH2: Explain why muscle cells contain a lot of mitochondria.

CH3: Compare and contrast nerve cells and sperm cells.

How many more times bigger is an egg cell (0.2mm) than a sperm cell (0.05mm)?

$0.2/0.05 =$