

**MINISTRY OF EDUCATION**  
**SECONDARY ENGAGEMENT PROGRAMME**  
**GRADE 8**  
**INTEGRATED SCIENCE**

**Week 1**

**Lesson 2 -Worksheet 1**

**Instructions:** Read the questions carefully then circle the letters which correspond to your chosen answer.

1. Which of the following structures is not present in an animal cell?
  - A. Mitochondria
  - B. Nucleus
  - C. Chloroplast
  - D. Cell membrane
2. Which of the following are found in animal cells?
  - A. Nucleus and cytoplasm
  - B. Chlorophyll and mitochondria
  - C. Cell membrane and chloroplasts
  - D. Cell wall and large vacuole
3. What is the main function of the vacuole in a plant cell?
  - A. To store substances.
  - B. To release energy.
  - C. To produce proteins.
  - D. To control the activity of the cell
4. Which tissue transmits impulses?
  - A. Blood
  - B. Secretory
  - C. Epithelium
  - D. Nervous

5. Which is the main function of the cell membrane?
- A. To allow substances to pass in and out of cells.
  - B. To control the activity of the cell.
  - C. To store substances.
  - D. To assist in chemical reactions.
6. Which is a group of cells that carries out a specialized function?
- A. An organ
  - B. A system
  - C. A tissue
  - D. An organism
7. The instrument that enables us to study cells is
- A. Hand lens
  - B. Microscope
  - C. Needle
  - D. Telescope
8. Identify an organism below that has a cell wall in its cell.
- A. Shark
  - B. Rat
  - C. Horse
  - D. Hibiscus
9. The basic structural units of organisms are called
- A. Cell wall
  - B. Atoms
  - C. Cell
  - D. Nucleus
10. What is the role of the cytoplasm in plant cells?
- A. Contains genetic material
  - B. An area where most chemical processes takes place
  - C. Controls activities of the cell
  - D. Controls movement of substances in and out of the cell

## Section B

1. Why are cells not all the same? Give examples of your answer.
2. Which type of cells are needed to perform the following functions in a multi-cellular animal?
  - a. Protective covering
  - b. Carry messages between cells
  - c. Move oxygen round the body
  - d. Prevent dirt and bacteria from getting into the lungs.
3. What is the function and importance of the following specialized plant cells?
  - a. Root cells
  - b. Chloroplasts
  - c. Guard cells
  - d. Phloem cells

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1. C
2. A
3. A
4. D
5. A

**Lesson 2: Worksheet 1 - Answer**

6. C
7. B
8. D
9. C
10. B

**Section B**

1. Each cell is specialized to carry out a specific function hence their shape, size and structure will vary according to the function that it has to carry out. For example, red blood cells are disc-shaped and do not contain a nucleus. This is to allow them to transport as much oxygen as possible around the body.
2. A. skin cells  
B. nerve cells  
C. Red blood cell  
D. White blood cell
3. A. Root cells- absorb water from the soil  
B. Chloroplasts- allow photosynthesis to take place  
C. Guard cells- controls the opening and closing of the stomata  
D. phloem cells- transport food to all parts of the pla