

NATURAL SCIENCE

Middle School Class 7 Semester Even

STUDENT WORKSHEET

ANIMAL CELLS AND

PLANT CELLS



Presented By

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LEARNING ACTIVITIES 1

Name :

Class :

No absence :

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LEARNING OBJECTIVES

- Through activities on student worksheets, students can analyze the differences between animal cells and plant cells correctly.
- Through activities on student worksheets, students are able to solve problems in life related to the material of life organizational systems at the cellular level correctly.

let's watch the video below !

Instructions:

Read the following problems related to animal and plant cells carefully.

Think about the possible solutions for each problem.

Write down your answers in the space provided.

Problem 1:

A student observed a plant cell under a microscope and noticed that it has a large central vacuole. However, the student is unsure about the function of the vacuole. What could be the possible functions of the central vacuole in plant cells?

Answer:

Problem 2 :

A researcher found a new species of animal cell that has a unique structure. The researcher wants to know whether the cell is a prokaryotic or eukaryotic cell. How can the researcher determine the type of cell?

Answer:

Problem 3:

A student conducted an experiment to compare the size of animal and plant cells. The student used a microscope to observe the cells, but found it difficult to compare the sizes accurately. What method could the student use to accurately compare the sizes of animal and plant cells?

Answer:

Problem 4:

A farmer noticed that his crops are not growing well, and suspects that there may be a problem with the plant cells. How can the farmer identify the problem with the plant cells and take necessary actions to improve crop growth?

Answer:

Problem 5:

A company wants to produce a new type of cosmetic product that contains animal cells. However, the company is concerned about the ethical issues related to using animal cells in cosmetics. How can the company ensure that the animal cells are obtained ethically and responsibly?

Answer:

Problem 6:

A group of scientists are conducting research on cancer cells and want to compare the characteristics of normal and cancer cells. What are the main differences between normal and cancer cells in terms of structure and function?

Answer:

Problem 7:

A student observed a cell under a microscope and noticed that it has a rigid cell wall. However, the student is unsure about the function of the cell wall. What could be the possible functions of the cell wall in plant cells?

Answer:

Problem 8:

A biologist wants to investigate the effect of different types of nutrients on animal cell growth. What nutrient should the biologist provide to the animal cells to promote healthy cell growth?

Answer: