Name & Surname: _____ Class: _____ Date: _____

LIVING THINGS ARE MADE OF CELLS

Find cell evidence with a microscope investigation.



About 40 minutes Level ★★★☆☆

THE SMALLEST UNIT OF LIFE

All **living things** are made up of **cells**, the smallest unit that can be said to be alive.

- One single cell alone can be an organism: **unicellular**.
- Many different numbers and types of cells can make one organism: **multicellular**.
- A compound **microscope** helps you find plant and animal cells and compare structures, such as the cell membrane that controls what enters and leaves.



TASK A /3

Use evidence from your investigation to explain cells.

1. **What is a cell, and why is it called the smallest unit of life?**
   A cell is...

2. **What is the difference between unicellular and multicellular organisms?**
   Unicellular means... while multicellular means...

3. **How does using a compound microscope give evidence that living things are made of cells?**
   The microscope gives evidence because...

Created with LessonDino.com · AI lesson planner with checkable sources

LAB LETTER HOME

Explain your cell investigation to someone outside class.

KEY WORDS

cell: smallest unit that can be said to be alive

multicellular: made of many cells of different types

membrane: boundary that controls what enters and leaves

unicellular: made of one single cell

microscope: tool that makes tiny things look larger

structure: a part with a particular job

TASK B

Write a letter home explaining your cell investigation.

Date: _____

Dear Family,

Say what question you investigated and what tool you used

Explain unicellular and multicellular with what you saw under the microscope

Tell what your evidence proves about living things

Yours sincerely, _____

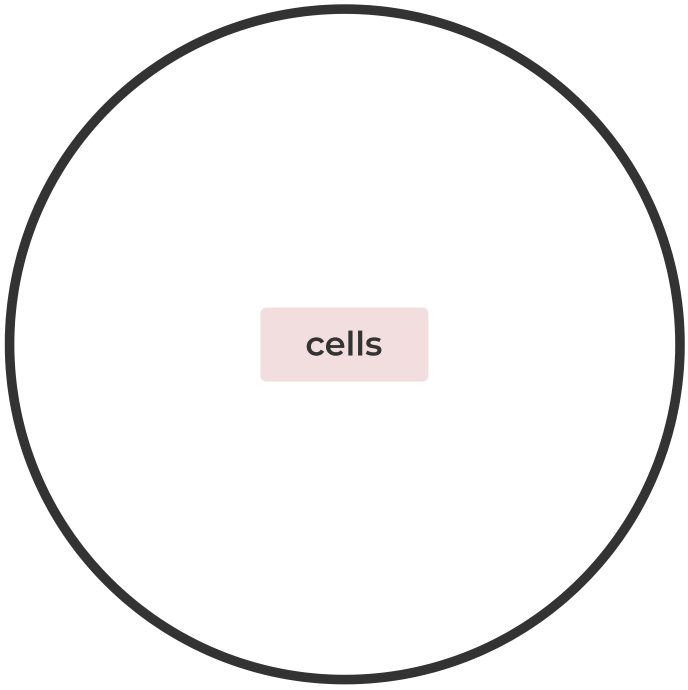
Created with LessonDino.com · AI lesson planner with checkable sources

ONE CELL MANY CELLS

Brainstorm what you know about cells in living things.

TASK C

Brainstorm what you know about cells in living things.



Created with LessonDino.com · AI lesson planner with checkable sources

ORDER THE EVIDENCE

Sort evidence and show how an investigation works.

⇅ TASK D

Example done for you

/3

Place each piece of evidence in order from weak to strong.



- **A** ~~B: Look at one plant sample once with a microscope~~
- **B** D: Repeat observations, compare with a partner and evaluate quality
- **C** C: Observe plant and animal cells, draw and label structures
- **D** A: Say living things have cells without looking

TASK E

/2

Show the steps of a cell investigation in order.

1. Ask: Are living things made of cells?
2. .....
3. Use a compound microscope to locate cells
4. .....
5. Analyze evidence and conclude unicellular or multicellular

Created with LessonDino.com · AI lesson planner with checkable sources

SHOW WHAT YOU KNOW

Use key words and compare cell types.

TASK F

Example done for you

/5

Fill in the blanks with cell words to show what you learned.

microscope | unicellular | membrane | alive | multicellular | ~~cells~~

All living things are made up of cells, which is the smallest unit that can be said to be _____. An organism with one single cell is _____. An organism with many different numbers and types of cells is _____. A compound _____ lets us see special structures, such as the cell _____ that controls what enters and leaves the cell.

TASK G

/4

Complete the table to compare unicellular and multicellular life.

Organism type	Number and types of cells	What microscope evidence shows
Unicellular		
Multicellular		

HOW DID I DO?

Circle a face for each line.

I can state that all living things are made of cells. ☹ 😐 ☺

I can compare unicellular and multicellular organisms. ☹ 😐 ☺

I can use microscope evidence to support a claim. ☹ 😐 ☺

Created with LessonDino.com · AI lesson planner with checkable sources

Answer sheet: Living Things Are Made of Cells

Task A

1. A cell is the smallest unit that can be said to be alive; all living things are made up of cells.
2. Unicellular means one single cell makes up the organism; multicellular means many different numbers and types of cells make up the organism.
3. It lets you locate, observe, and draw plant and animal cells, showing living things contain cells with special structures for particular functions.

Task B

Answers will vary.

Task C

Ideas: plant cells under a microscope, animal cells under a microscope

Task D

From weak evidence to strong evidence: D, A, C, B

Task E

1. Ask: Are living things made of cells?
2. Collect plant and animal samples
3. Use a compound microscope to locate cells
4. Draw and compare plant and animal cell structures
5. Analyze evidence and conclude unicellular or multicellular

Task F

All living things are made up of [CELLS], which is the smallest unit that can be said to be [ALIVE]. An organism with one single cell is [UNICELLULAR]. An organism with many different numbers and types of cells is [MULTICELLULAR]. A compound [MICROSCOPE] lets us see special structures, such as the cell [MEMBRANE] that controls what enters and leaves the cell.

Task G

Unicellular | one single cell | one cell carrying out life functions
Multicellular | many different numbers and types of cells | many cells with special structures, such as plant and animal cells

Pictures: Microsoft Fluent Emoji (MIT)

Created with LessonDino.com · AI lesson planner with checkable sources