

# Cell Explorer Lab Worksheet

NAME \_\_\_\_\_ PERIOD \_\_\_\_\_ DATE \_\_\_\_\_

Open the Cell Explorer at [keslerscience.com/cell-organelles-lab](https://keslerscience.com/cell-organelles-lab). Keep it open the whole time. Every blank below comes from the lab. Work the four steps in order, top to bottom.

## 1 EXPLORE

**DO THIS** Click every glowing dot on the **Plant cell**. Then switch to the **Animal cell** and explore it too. Fill in the chart from what the lab tells you.

CELL PART	WHAT IT DOES (ITS JOB)	WORKS LIKE A...
Cell membrane		
Cell wall		
Cytoplasm		
Nucleus		
Ribosomes		
Mitochondria		
Chloroplasts		
Vacuole		

Which **2 parts** disappeared when you switched to the Animal cell? \_\_\_\_\_ and \_\_\_\_\_

## 2 COMPARE

**DO THIS** Go to the **Compare** tab. Sort all 8 parts, then write each one in the right column below.

FOUND IN BOTH CELLS (6)

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PLANT CELLS ONLY (2)

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An animal cell has no chloroplasts. Explain why that means an animal cell can't make its own food.

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## 3 APPLY

**DO THIS** Go to the **Apply** tab. The labels are hidden. Read each job, click the part that does it, then write the part's name here.

- 1 Controls what enters and leaves the cell \_\_\_\_\_
- 2 Releases energy from food (cellular respiration) \_\_\_\_\_
- 3 Captures sunlight to make food for the plant \_\_\_\_\_
- 4 Holds the cell's genetic instructions \_\_\_\_\_

## 4 CHALLENGE

**DO THIS** Take the 8-question **Challenge**. Record your score, then answer the question below.

**My Challenge score:** \_\_\_\_\_ / 8

Pick one cell part. In your own words, tell what would happen to the cell if that part stopped working.

Part: \_\_\_\_\_

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