Tiny Blocks of Life

Living things are made of cells



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Today we will...

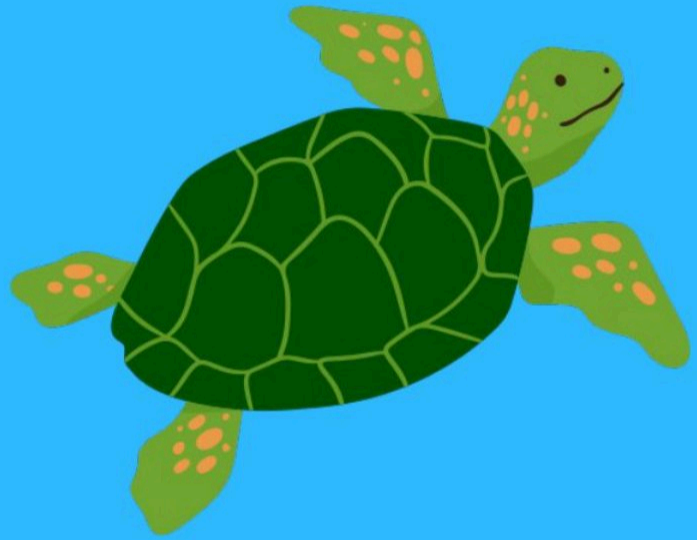
WE ARE LEARNING TO

- Investigate evidence that living things are made of cells
- Compare organisms with one cell and many cells
- Use microscope observations like a scientist

SUCCESS LOOKS LIKE

✓ I can explain cells are the smallest unit of life

✓ I can give unicellular and multicellular examples



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What Is a Cell?

- A cell is the smallest unit that can be alive
- All living things are made of cells
- Some have one cell, others have many types

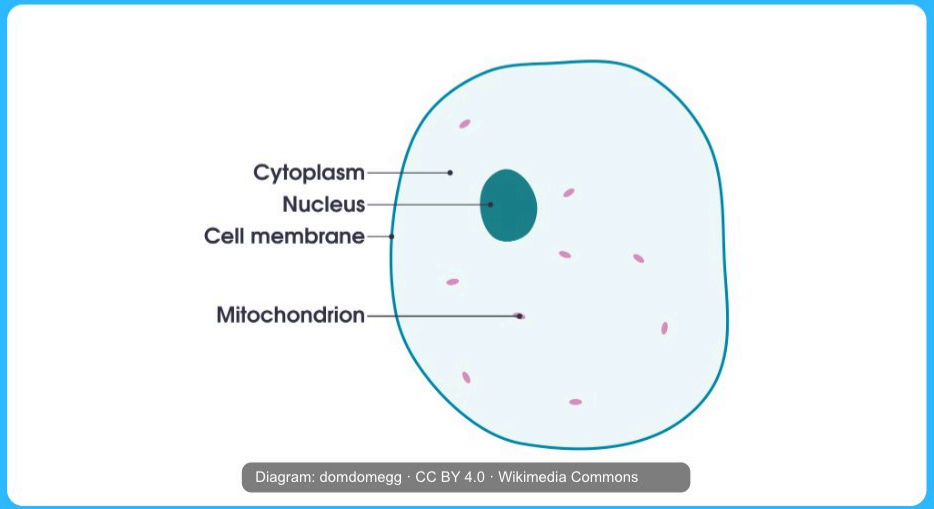
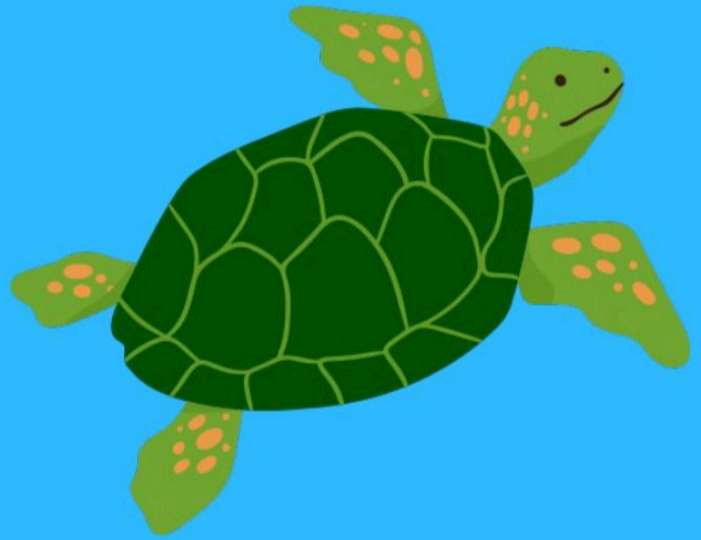


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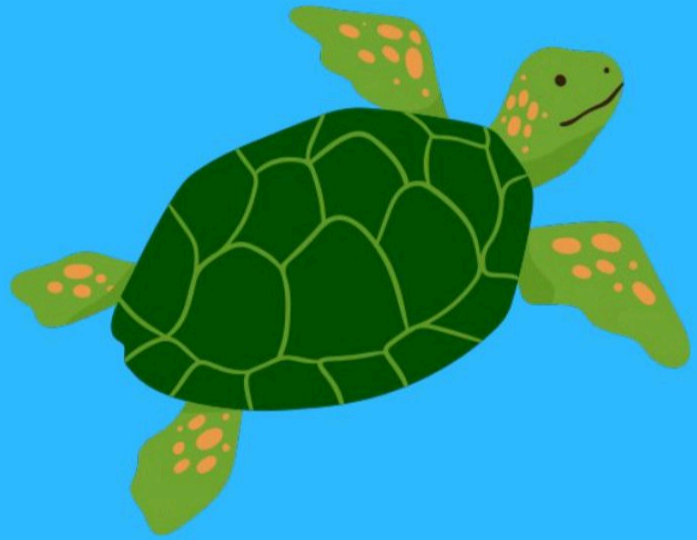
Many Types, One Building Block

Pond organism

One tiny cell can live all by itself.

Leaf cell

Leaves have many green food-making cells.



Skin cell

Your skin has many flat protective cells.

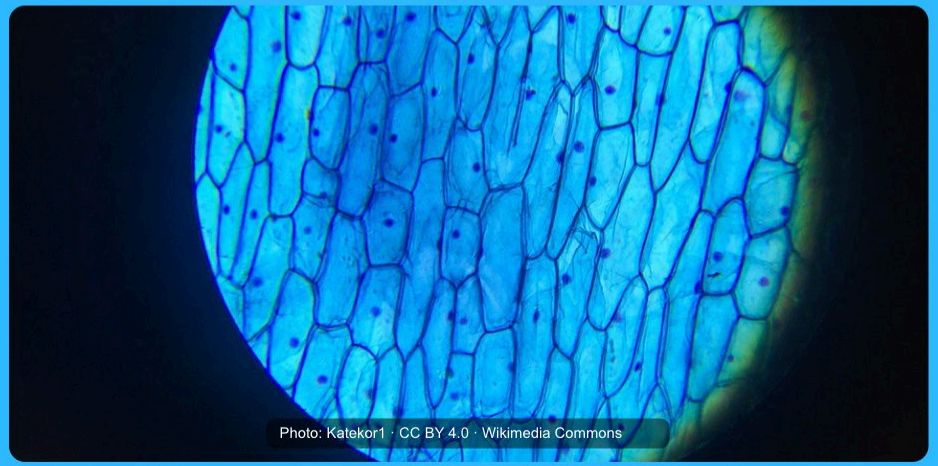
Muscle cell

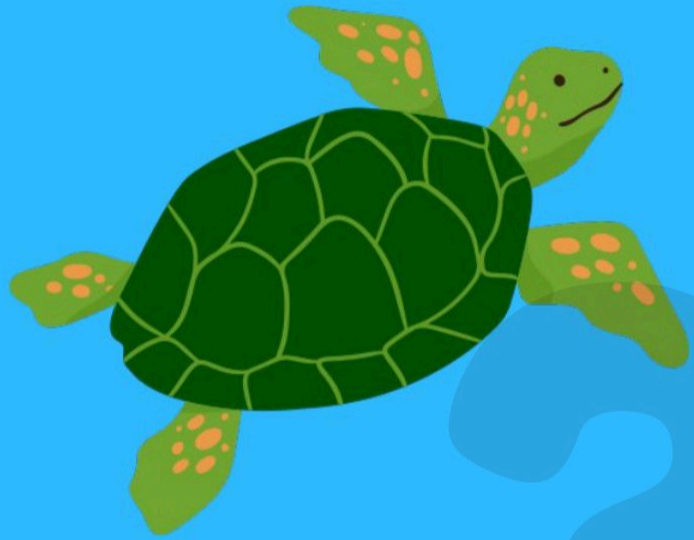
Muscles have many long moving cells.

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What could this be?

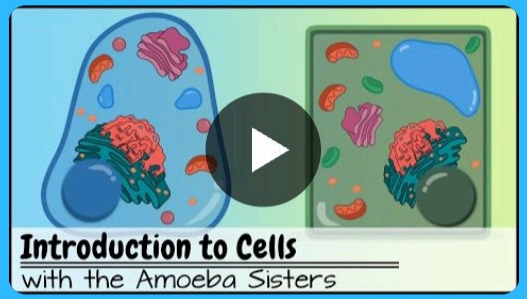
These tiny brick-like boxes came from an onion. Are they alive?





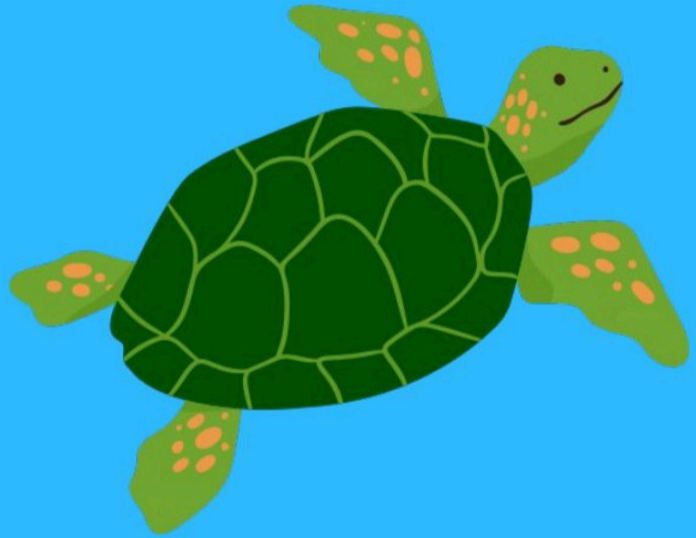
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Grand Tour of Cells



▶ 0:00 – 4:30

- Watch for: what makes something a cell
- Watch for: one cell or many cells?

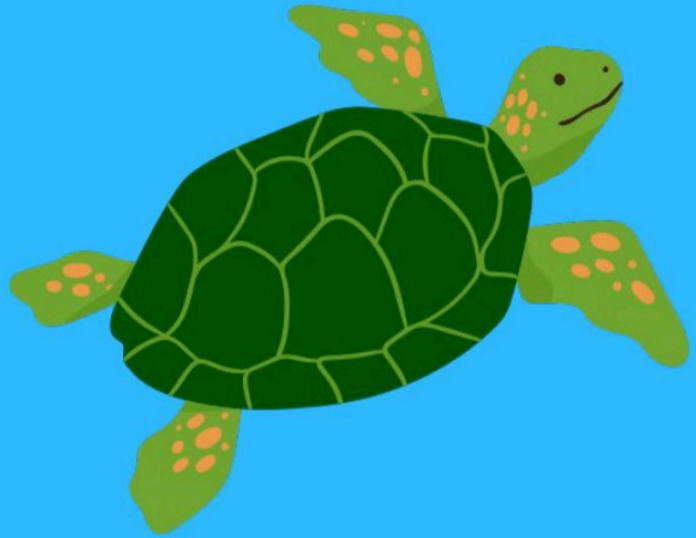


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BIG IDEA

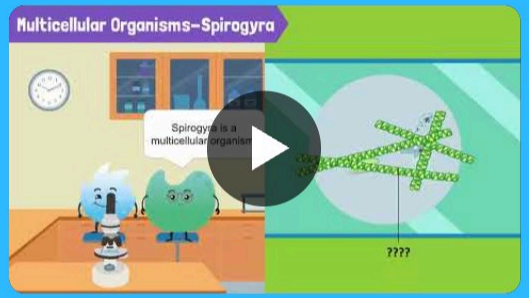
Every living thing is built from cells.





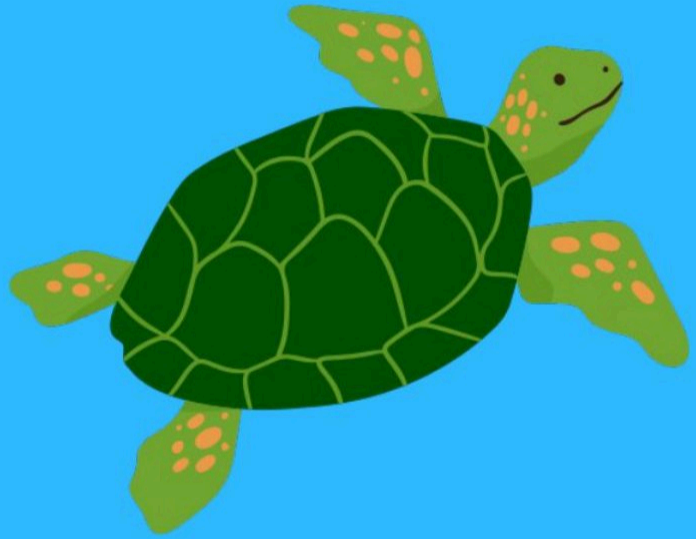
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One Cell vs Many Cells



▶ 0:00 – 4:45

- Watch for: how unicellular is different
- Watch for: different cell types working together

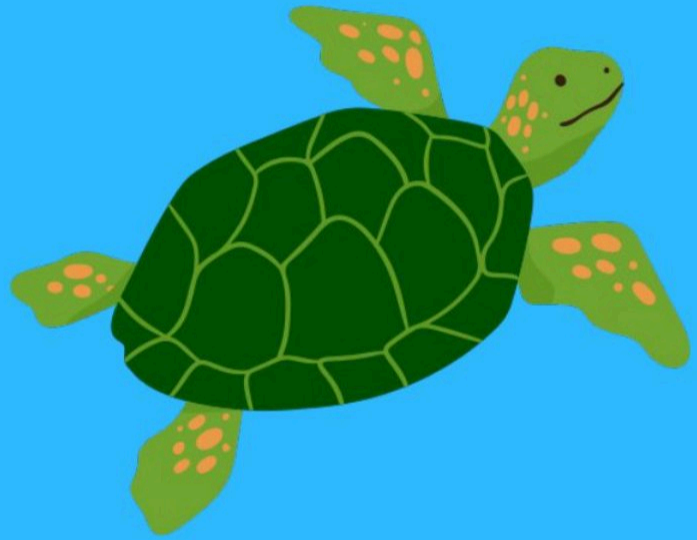


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Your task

Examine three microscope views and collect evidence for our claim.

1. Sketch what you see at each station
2. Label each as one cell or many cells
3. Write: my evidence shows living things are made of cells because...



15 min

In pairs

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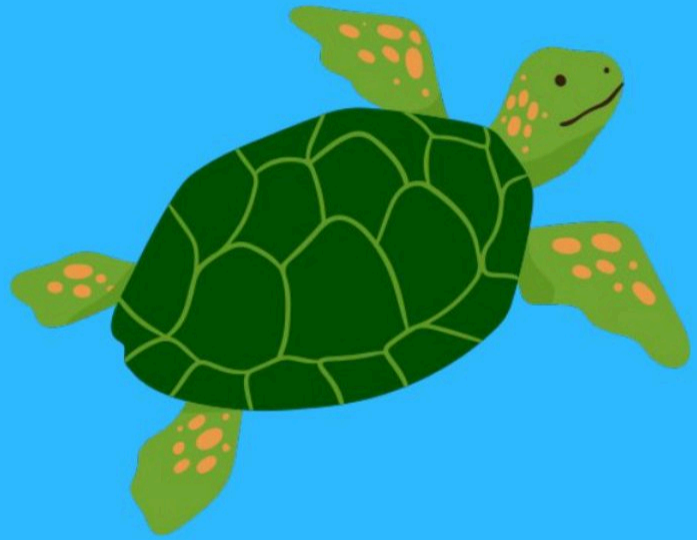
One Cell or Many Cells?

Unicellular - One Cell

- One cell does all life jobs
- Example: tiny pond organism

Multicellular - Many Cells

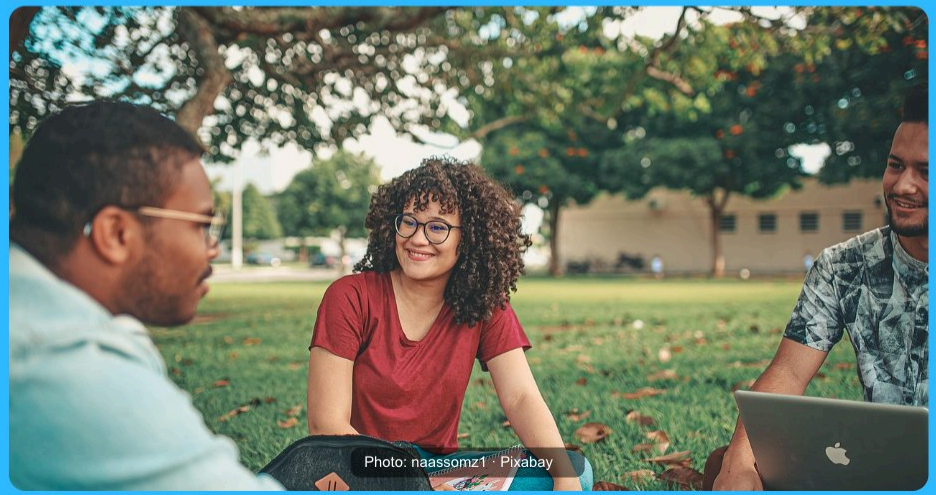
- Many cells share the jobs
- Example: humans, plants with cell types

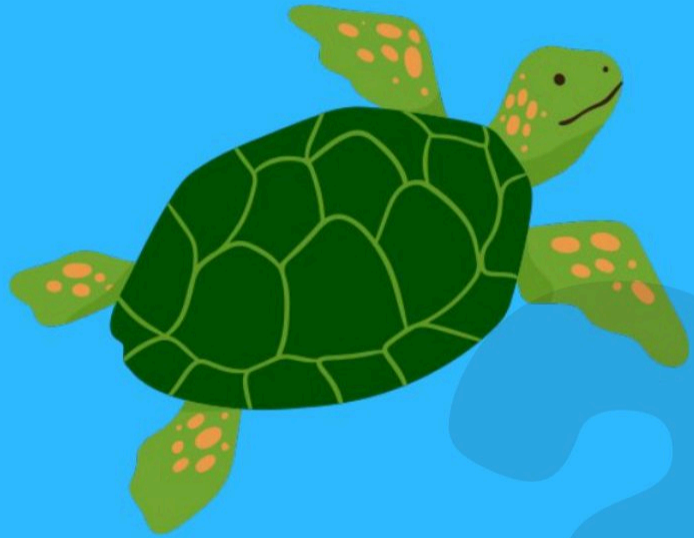


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Think, pair, share

Why would a leaf need different cell types than your skin?





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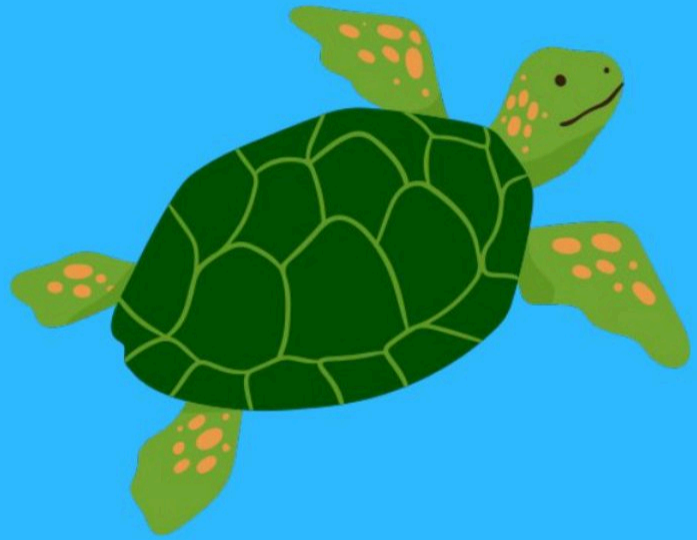
True or false?

All living things are made of cells.

Some living things have no cells at all.

A tiny pond organism can be just one cell.

Leaf cells and skin cells do exactly the same job.



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