WHAT PLANTS NEED TO GROW?

Let's test sunlight and water



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TODAY WE WILL...

WE ARE LEARNING TO

plan a fair test about sunlight and water

start our test and watch plants grow

SUCCESS LOOKS LIKE

- ✓ I can keep everything the same except one thing
- ✓ I can predict and measure in inches

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HOW WATER AND LIGHT HELP

Roots soak up water from the soil → Water moves up the stem to leaves → Leaves use sunlight to make food → Food helps the plant grow strong

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HOW TO MAKE IT FAIR

1. Use the same seeds, soil, and cups
2. Change only one thing at a time
3. Plant A gets light and water
4. Plant B gets no water, Plant C gets no light

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THINK, PAIR, SHARE

If one plant gets water but no light, what will it look like in a week?

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DO PLANTS NEED WATER AND SUNLIGHT?



▶ 0:00 – 5:00

- Watch what each plant gets
- Watch how each plant changes

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OUR GROWING WEEK

DAY 1 MORNING

Plant seeds, water A and C, place cups

DAY 3

Look, measure in inches, draw

DAY 5

Water A and C, check again

DAY 7

Compare and decide what helped

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GROW YOUR OWN PLANTS



▶ 0:00 – 5:00

- Watch how to plant a seed
- Watch how to observe and record

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YOUR TASK

Set up three bean cups with your group and predict what will happen.

1. Label cups A, B, C and plant seeds
2. Add 2 spoonfuls of water to A and C
3. Put A and B in light, C in the dark
4. Draw, predict, and measure start height

20 min

Groups of 4

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WHAT PLANTS NEED



Water

Roots soak it up to stay firm and upright.



Sunlight

Leaves use it to make food to grow.



Air

Leaves take it in to help make food.



Warmth

Air around 70°F helps plants make food.

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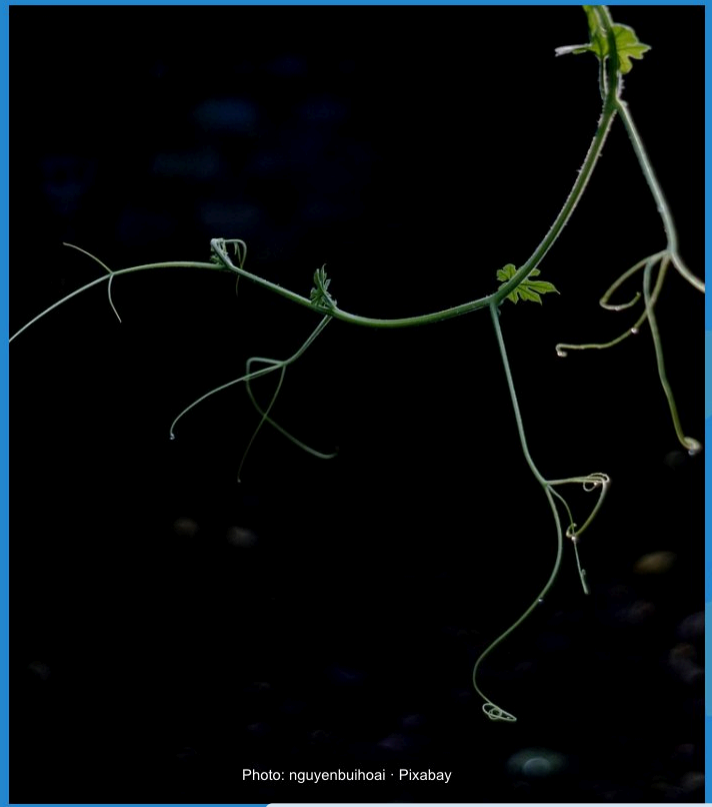
WHAT COULD THIS BE?

This plant got water every day but lived in a dark closet. Why is it pale and droopy?



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TRUE OR FALSE?

Plants grow best with the right water and sunlight.

A plant with no water will grow tall and strong.

Leaves use sunlight to help make food.

In a fair test we change everything at once.

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