Name & Surname: _____ Class: _____ Date: _____

What Plants Need

Do plants need sunlight and water?

About 30 minutes Level ★★★☆☆

What Plants Need to Grow

Plants are **living** things. They make their own food in their leaves.

- Plants need **sunlight** to make food and stay green and strong.
- Plants need **water** from the soil. Roots take it up.
- Plants also need air, warm air, and time to grow.
- For a **fair** test, change only one thing at a time.



Key Words

sunlight: light from the sun

water: what plants drink from soil

roots: parts under soil that take up water

seedling: a young plant just starting to grow

fair test: when you change only one thing

Task A

Example done for you

/3

Tick true or false. Think about sunlight and water.

Statement	True	False
Plants need sunlight to make food and grow strong.	✓	
Roots take up water from the soil for the plant.		
A plant in a dark closet will grow just as well as one in sunlight.		
To test water, give one plant water and give one plant no water.		

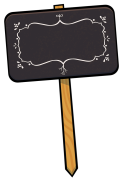
Created with LessonDino.com · AI lesson planner with checkable sources

Plan a Fair Test

Follow the steps to test sunlight and water.

Task B

Put the test in order. You will use four plants and 7 days.

1. Get 4 same seedlings in pots of soil
2.  Label 2 plants Sunlight and No Sunlight
3. Put one in sun, one in dark box. Water both
4.  Label 2 more plants Water and No Water
5. Put both in sun. Water only the Water plant
6. Watch for 7 days. Measure in inches and draw

Watch Them Grow

Show what your plants look like after a week.

Task C

Draw your test plants after 7 days. Use color to show healthy and weak.



Left: plant in sun. Right: plant in dark.

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

Parts and Clues

Label parts and use clues to explain growth.

Task D

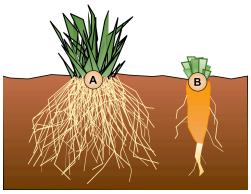
/3

Label each part. Use the word bank: leaf, stem, roots.

stem | roots | leaf







_____ makes food with sunlight

_____ holds the plant up

_____ takes up water

Task E

/2

Read and think. What does the clue tell about water?

Two seedlings got the same sunlight. The Water plant got water every day. It is tall and green. The No Water plant got no water. It is short, brown, and droopy.

Question	It says...	I say...	And so...
Which plant did not get **water**?	The No Water plant got no water.	Plants need water to stay firm and green.	The No Water plant turned short, brown, and droopy.
Does this test show plants need **water**?			

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

Show Your Learning

Finish the table and sentences about needs.

Task F

/2

Finish the table. Write what you saw in each test.

Test	What we changed	What we saw
Sunlight test	one in sun, one in dark	
Water test	one gets water, one gets none	

Task 6

Example done for you

/4

Fill the blanks. Use what you learned about sunlight and water.

food | water | ~~sunlight~~ | soil | yellow

Plants are **living** things. They need sunlight and _____ to grow. Leaves use sunlight to make _____. Roots take up water from the _____. A plant with no sunlight turns _____ and weak.

How did I do?

Circle a face for each line.

I can name what plants need to grow. ☹ 😐 ☺

I can plan a fair test with sunlight and water. ☹ 😐 ☺

I can explain what happened to my plants. ☹ 😐 ☺

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

Answer sheet: What Plants Need

Task A

1. True
2. True
3. False
4. True

Task B

1. Get 4 same seedlings in pots of soil 2. Label 2 plants Sunlight and No Sunlight 3. Put one in sun, one in dark box. Water both 4. Label 2 more plants Water and No Water 5. Put both in sun. Water only the Water plant 6. Watch for 7 days. Measure in inches and draw

Task C

Answers will vary.

Task D

1. leaf
2. stem
3. roots

Task E

1. The No Water plant turned short, brown, and droopy.
2. Yes, plants need water to grow.

Task F

Sunlight test | one in sun, one in dark | dark plant turned yellow and weak

Water test | one gets water, one gets none | no-water plant wilted and droopy

Task G

Plants are living things. They need [SUNLIGHT] and [WATER] to grow. Leaves use sunlight to make [FOOD]. Roots take up water from the [SOIL]. A plant with no sunlight turns [YELLOW] and weak.

Pictures: Illustration: CharlVera · Pixabay; Illustration: Katamaheen · Pixabay; Pictograms: Sergio Palao, ARASAAC (arasaac.org) · CC BY-NC-SA; Illustration: REPIC_STUDIO · Pixabay; Drawing: KaitlinLiu · CC BY-SA 4.0 · Wikimedia Commons

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