

03/26 Producers

#3

Plan

- Quiz
- Controlled investigation

Take a minute to review your ecosystem vocabulary before the quiz.

Put your name on the paper and class period. At the top.

Exit goal

Write up the investigation to the data table.



Learning target: I can investigate what producers need to make their own food by planning a controlled investigation.

A Abiotic

B Biotic

C Community

D Population

E Ecosystem

F Individual

1. Nonliving chemical and physical factors in the environment.

2. One single organism.

3. All the individuals of one kind (one species) in a specified area

4. Living organisms and products of organisms.

5. All the interacting populations in a specified area.

6. A system of interacting organisms and nonliving factors in a specified area.



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7. The organisms that make their own food are called.....
- A Predators
 - B Consumers
 - C producers
 - D primary consumers



Learning I can identify complex feeding relationships in different ecosystems.
Target: I can demonstrate this understanding with a food web.

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8. The organisms that only eat plants are called.....

- A Predators
- B Producers
- C Primary consumers
- D Consumers



Learning I can identify complex feeding relationships in different ecosystems.

Target: I can demonstrate this understanding with a food web.

Producer Investigation

Complete a question and a hypothesis for your TAC. (Terra Aqua Column)

Question: How does _____ affect plant growth?

(no sunlight, no water, no soil)

Hypothesis: If there is no _____, then the plant will _____ and _____ because _____



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Variables: MV: _____

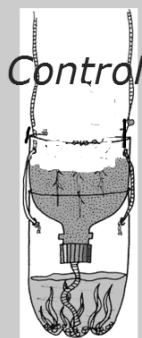
RV: Average Height

CV: Air (CO2), _____, _____, _____, _____...

Materials: 200ml soil or cotton, water, string wick, TAC column, ruler, 3 radish seeds

Diagram

at least 1/2 a page ABCD!



No



tac column
3 radish seeds
wick
500ml water
200 ml soil with 50ml water
ruler to measure growth



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Producer Investigation

Part 2

Complete a numbered procedure for the producer investigation.

Procedure:

1. Set up the TAC column with the wick.
2. Put 500 ml of water in the bottom.
3. Put 20 ml of soil in the top.
- 4 - Put 3/5 seeds in the soil/cotton.
5. Water with 50 ml of water.
6. Put the TAC under the growth light.
- 7 - Observe every Mon, Wed and Friday.
- 8 - Measure the height of the plant and record in the data table.



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Producer Investigation

Complete a numbered procedure for the producer investigation.

Procedure:



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Data Tables

Control (sun, water, & soil)

No _____

Date	Average Height (cm)	Observations (Color, strength, shape, leaf size and number...)

Date	Average Height (cm)	Observations (Color, strength, shape, leaf size and number...)

6-9 observations



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Data Tables

Control (sun, water, & soil)

No _____

Date	Average Height (cm)	Observations (Color, strength, shape, leaf size and number...)

Date	Average Height (cm)	Observations (Color, strength, shape, leaf size and number...)

What stage is your radish plant in?



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