

Handout

1. Write numbers 1 to 5 to show the correct sequence (order) of the events in a plant's life cycle.



Fruit



Sprout

Seed



Plant



Flower

2. Repeat the steps so that the bee pollinates three different flowers. Draw a circle around the parts of the code that should be repeated using a loop and indicate the number of times the loop repeats.

1. The bee flies away from the hive.
2. The bee lands on a flower.
3. The bee pollinates the flower.
4. The bee flies away.
5. The bee returns to the hive.

3. A plant grows from seed to flower. While the plant grows, the weather changes from sunny to rainy.

Place the events in the correct program space.

Hint: create one program to describe the steps of plant growth, and one program to describe weather factors that support plant growth.

PROGRAM 1

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The seed is planted.
The sun shines.
The plant produces flowers.
The seed germinates.
It rains.
The seedling grows.
The adult plant grows.

PROGRAM 2

Repeat **the seedling grows** step twice and **the adult plant grows** step twice using loops.
Repeat the weather program 10 times using a loop. Draw a circle around the parts of the code that should be repeated using a loop and indicate the number of times the loop repeats.

Grow With Code

Grades 3 and 4

Answer Key

1. Write numbers 1 to 5 to show the correct sequence (order) of the events in a plant's life cycle.

Fruit

Sprout

Seed

Plant

Flower

5

2

1

3

4

2. Repeat the steps so that the bee pollinates three different flowers. Draw a circle around the parts of the code that should be repeated using a loop and indicate the number of times the loop repeats.

1. The bee flies away from the hive.

2. The bee lands on a new flower.

3. The bee pollinates the flower.

4. The bee flies away.

5. The bee returns to the hive.

3

3. A plant grows from seed to flower. While the plant grows, the weather changes from sunny to rainy.

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Place the events in the correct program space.

Hint: create one program to describe the steps of plant growth, and one program to describe weather factors that support plant growth.

PROGRAM 1

The seed is planted.

The seed germinates.

The seedling grows.

The adult plant grows.

The plant produces flowers.

2

2

PROGRAM 2

The sun shines.

It rains.

10

Repeat **the seedling grows** step twice and **the adult plant grows** step twice using loops. Repeat the weather program 10 times using a loop. Draw a circle around the parts of the code that should be repeated using a loop and indicate the number of times the loop repeats.