

Structures of Life Investigation 1 Study Guide

Write YES or NO next to each food to tell if it is a fruit.

Is it a fruit?

1. Y tomato

4. Y corn on the cob

2. N carrot

5. Y strawberry

3. N celery

6. N potato

7. What is the function of the fruit in a plant? _____ The function of the fruit is to protect the seeds _____

8. Name 4 ways seeds get dispersed. wind _____, water _____,

birds _____, squirrels _____

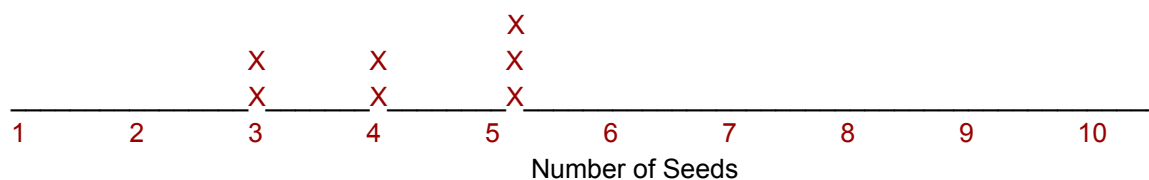
9. Why is it important for seeds to be dispersed away from the parent plant? _____ It is important so new plants don't have to compete with the parent plant for basic needs like water, sun, nutrients from the soil. _____

10. Traits are inherited from the parent to the baby. That's why the baby looks like the parent plant. If a rose plant produces red roses, what color would the baby roses be?

red _____

11. Use the data table below to make a line plot showing the number of seeds inside pea pods.

Pea Pod	Number of Seeds
1	5
2	3
3	3
4	5
5	4
6	5
7	4



12. What was the most common number of seeds they found in the pea pods? 5

13. If you opened another pea pod, how many seeds would you expect to find? 5

14. Plants of the same type look a lot alike, but they can also vary (look different) in many ways. Put an X next to all the ways plants of the same type can vary.

X Size of leaves on the plant X Number of seeds produced root type X how tall the plant grows

15. A group of students drew models of seeds they were observing in a seed sprouter.



Apple seed



Soybean seed



Avocado seed



Tomato seed

Write S next to each phase that shows something that is the same about all of the seeds. Write D next to each phase that shows something that is different.

D Shape of the seeds D Size of the seeds S Cotyledon provides food

S Embryo in the seed grows into a new plant

16. Draw a picture of a lima bean seed. Label the cotyledon and embryo. Then explain what is the first thing that will happen when the seed is soaked in water. Make sure to explain what structure would develop first and why.

The first part that will develop is the root so that it can soak up the water for the new plant.

