

Parts of the Scientific Method

Name _____

Date _____ Per _____

Part 1

Directions: Each sentence below describes a step or a part of the scientific method. Match each sentence with a step of the scientific method listed below.

- A – Observation
- B – Hypothesis
- C – Experimentation
- D – Data Collection
- E – Conclusion
- F – Variable
- G – Control

- _____ 1. Stephen predicted that seeds would start to grow faster if an electric current traveled through the soil in which they were planted.
- _____ 2. Rene grew bacteria from the mouth on special plates in laboratory. She placed drops of different mouthwash on the bacteria in each plate.
- _____ 3. Edward saw bats catching insects after dark. He asked, how do bats find the insects after dark?
- _____ 4. Justin wondered if dyes could be taken out of leaves, flowers, and stems.
- _____ 5. Jamie grew plants in exactly the same conditions except she changed the amount of water each plant got. The differing amount of water is the _____ in this experiment.
- _____ 6. Maria soaked six different kinds of seeds in water for 24 hours. Then, she planted the seeds in soil at a depth of 1 cm. She used the same amount of water, light, and heat for each kind of seed.
- _____ 7. After Maria's seeds began to grow, she made a graph to plot their growth.
- _____ 8. Krista read about growing plants in water. She wanted to know how plants could grow without soil.
- _____ 9. Scott guessed that acid rain was responsible for the deformed salamanders in the lake.
- _____ 10. Kim's experiment showed that chicken egg shells became stronger if the hen ate feed to which extra calcium had been added.