

Name: _____

Date: _____

pH in Soil & Food

What is pH? _____

Name one thing that controls the pH in our soil? _____

What is the pH level of your favorite fruit or veggie? _____

Circle the correct hypothesis:

1. If I add orange peels to my soil, then my plants pH will (**be higher** / **be lower**)
2. If I add coffee grounds to my soil, then my plants pH will (**be higher** / **be lower**)
3. If I add more water to the soil, then my plants pH will (**be higher** / **be lower**)
4. If I add moss to my soil, then my plants pH will (**be higher** / **be lower**)

Experiment: You will test different things to see if they change the pH level of soil, and record what you find.

Materials:

- You will need a small plant pot, soil, a Miracle Fruit Plant, a pH Soil Meter, coffee grounds, Sphagnum Moss, and orange peels.

Each week, write down what you see happening to your plant, and if you or your classmates did anything to help it grow better. You can also use the pH Soil Meter to check the pH level of the soil.



| Week | Observations | Quantitative Characteristics | Did I/We Do Anything? |
|-------------|---------------------|-------------------------------------|------------------------------|
| Week 1 | | | |
| Week 2 | | | |
| Week 3 | | | |
| Week 4 | | | |
| Weeks 5-6 | | | |
| Weeks 7-8 | | | |
| Week 9-11 | | | |

