

Name: _____

Date: _____

pH in Soil & Food

Match the following:

SLIGHTLY ALKALINE SLIGHTLY ACIDIC MODERATELY ACIDIC STRONGLY ACIDIC VERY STRONGLY ACIDIC STRONGLY ALKALINE ULTRA ACIDIC EXTREMELY ACIDIC NEUTRAL VERY STRONGLY ALKALINE MODERATELY ALKALINE

5.1-5.5 3.5-4.4 5.6-6.0 6.1-6.5 7.9-8.4 4.5-5.0 7.4-7.8 <3.5 6.6-7.3 8.5-9.0 >9.0

What is pH? _____

Why is rain safer than acid rain even though it has a higher pH? _____

What is the optimal pH level for kale? _____

Finish the hypothesis:

If I add orange peels to my soil, then my plants pH will _____

If I add coffee grounds to my soil, then my plants pH will _____

If I add more water to the soil, then my plants pH will _____

If I add moss to my soil, then my plants pH will _____

Experiment: You will record the pH levels for your plant as well as experiment with different items to see if it increases or decreases the pH level in soil.

Materials:

1. Plant pot, 6 inches wide
2. Soil, if not purchased with the plant
3. Miracle Fruit Plant



4. pH Soil Meter
5. Coffee Grounds
6. Sphagnum Moss
7. Orange peels

Record your weekly observations, quantitative characteristics, and any changed you or classmates did:

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			

