

The Power of pH

Student Name: _____

Observation of the Egg - Before the Experiment

What color is your egg? _____

What is its texture? What does it feel like? _____

What is the egg's mass? _____

Which is harder, the egg or your fingernail? _____

Observation of the Egg - Soaked in Vinegar

What color is your egg? _____

What is its texture? What does it feel like? _____

What is the egg's mass? _____

Which is harder, the egg or your fingernail? _____

Observation of the Egg - Soaked in Water

What color is your egg? _____

What is its texture? What does it feel like? _____

What is the egg's mass? _____

Which is harder, the egg or your fingernail? _____

Observation of the Egg - Soaked in Milk

What color is your egg? _____

What is its texture? What does it feel like? _____

What is the egg's mass? _____

Which is harder, the egg or your fingernail? _____



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Observation of the Egg - Soaked in Sport Drink

What color is your egg? _____

What is its texture? What does it feel like? _____

What is the egg's mass? _____

Which is harder, the egg or your fingernail? _____

Observation of the Egg - Soaked in Soft Drink

What color is your egg? _____


What is its texture? What does it feel like? _____

What is the egg's mass? _____

Which is harder, the egg or your fingernail? _____

CONCLUSION

Acids in liquids work to soften or weaken hard surfaces like eggshells. The stronger the acid, the softer the egg-shell becomes. Based on your observation, put the liquids in order from the MOST acidic to the LEAST acidic.

ACID	DRINK
Most	
	
Least	

The enamel of your tooth is similar to the egg's shell. What do you think happens to your teeth when you drink liquids that are acidic? Why? _____

Based on what happened to the eggshells in your experiment, which drinks do you think are the BEST for your teeth? Why? _____
