

What's in Baking Powder

Grade 7: Energy and Matter

1. Can you identify the following as a pure substance or a mixture?

- Salt : Pure substance
- Water: Pure substance
- Salt water: Mixture
- Sugar: Pure substance
- Cookie dough: Mixture
- Milk: Mixture

2. Follow the experiment and write down your observations.

	Water	Vinegar	Iodine	pH Indicator
Baking Soda	No reaction	Bubbles	No reaction	Turns blue-green
Cornstarch	No reaction	No reaction	Turns black	Turns pink-ish
Cream of Tartar	No reaction	No reaction	No reaction	Same colour
Baking Powder	Bubbles	Bubbles	Turns black, bubbles	Turns blue-green, bubbles

3. What is baking powder made of?

Baking soda, cream of tartar and cornstarch

4. From your observations, what is a pure substance and what is a mixture?

- Baking Soda: Pure substance
- Cornstarch: Pure substance
- Cream of Tartar: Pure substance
- Baking Powder: Mixture