



ARMPIT FUDGE

SCIENCE SAFETY

PLEASE follow these safety precautions when doing any science experiment.

- **ALWAYS** have an adult present.
- **ALWAYS** wear the correct safety gear while doing any experiment.
- **NEVER** eat or drink anything when performing any experiment.
- **REMEMBER** experiments may require marbles, small balls, balloons, and other small parts. Those objects could become a CHOKING HAZARD. Adults are to perform those experiments using these objects. Any child can choke or suffocate on uninflated or broken balloons. Keep uninflated or broken balloons away from children.

INGREDIENTS

- 1/2 Cup Powder Sugar
- 1 Tablespoon Butter
- 2 Teaspoons Cream Cheese
- 1/4 Teaspoon Vanilla Extract
- 2 Teaspoons Unsweetened Cocoa Powder
- 1 Freezer Quart Ziploc Slider Bag

INSTRUCTIONS

STEP 1: Observe the ingredients. Describe and classify the ingredients by their observable properties.

STEP 2: Pour the ingredients into the freezer quart Ziploc slider bag. Remove the air from the bag and zip the bag. Using your armpit, thoroughly mix the ingredients.

STEP 3: Remove the bag from your armpit, open the bag, and eat your armpit fudge. Describe and classify your armpit fudge by its observable properties. Did mixing the ingredients result in a new substance?

EXPLANATION

Using your armpit, you applied a force, mixing the ingredients, creating a batch of sweet science. This is a physical change, which is a change that does not result in a new substance.



SCIENCE BACKGROUND

Matter is anything that takes up space and has mass.

Different kinds of matter exist and many of them can be either solid or liquid, depending on temperature.

Matter can be described and classified by its observable properties. When two or more different substances are mixed, a new substance with different properties may be formed. This is considered a chemical reaction, which is a change that results in one or more new substances. A physical reaction does not result in a new substance. No matter what reaction or change in properties occurs, the total weight of the substances does not change.

I CAN STATEMENTS

- ✓ I can plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.
- ✓ I can conduct an investigation to determine whether the mixing of two or more substances results in new substances.

NEXT GENERATION SCIENCE STANDARDS CONNECTION

2 – Structure and Properties of Matter | Patterns

5 – Structure and Properties of Matter | Cause and Effect