

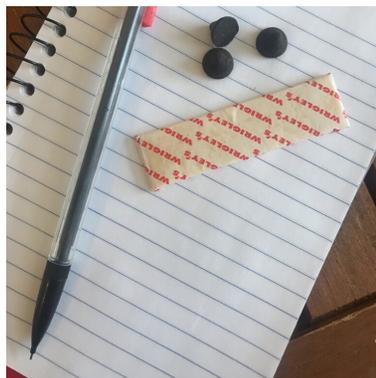


GUM & CHOCOLATE

Discover how different materials behave and change, and how they interact with each other.

Materials

- Gum
- Chocolate (3 chips or 1 kiss)
- Plate
- Pen or pencil
- Paper



Note: Please be aware of participants' food allergies or restrictions, and that gum and chocolate may pose a choking hazard for children under three years.

Procedure

- Unwrap the gum. What does it look, smell, and feel like? Record your observations. Do you think the gum would change if chewed? Make a hypothesis.
- Pop the gum in your mouth and chew. Keep the wrapper. Spit out gum onto the wrapper and observe any new properties. How has the gum changed as you chewed it? Was your hypothesis correct? Record your observations. Put the gum back in your mouth.
- Next, take out the chocolate and make some observations. What does it look, smell, and feel like? Record your observations. What do you think will happen if you chew on the chocolate with the gum in your mouth? Make a hypothesis.
- Put the chocolate in your mouth with the gum and chew it. Mix it up in your mouth and try not to swallow any of the chocolate.
- Spit out everything onto the plate. Look at and even touch it! What properties have changed? Is it still sticky? Was your hypothesis correct? Record your observations!

Results The gum and chocolate mixture has different properties than they have separately!

Why? You just did chemistry in your mouth! You are experiencing a phenomenon chemists sometimes describe as "like dissolves like." In this case, gum and chocolate have something chemically in common: they are both oil based. Can you think of other instances when you have seen the "like dissolves like" phenomenon?