

Inquiry Project:

Physical & Chemical Changes

Task:

1. Read through Science Notes and watch the Science Max videos on the Distance Learning Page.
2. Choose one of the experiments from the list below (make sure you have all the supplies at home).
3. **Before** performing the experiment, answer the “Before Questions.”
4. Then, perform the experiment – Take a video or picture!
5. Answer the “After Questions.”
6. Email me your answers to all the questions and include the picture or video!

Experiment Options:

- Baking Soda & Vinegar: <https://happybrownhouse.com/vinegar-baking-soda-balloon-experiment/>
- Solubility of Substances: <https://littlebinsforlittlehands.com/which-solids-dissolve-in-water-chemistry/>
- Layers of Liquids: <http://www.sciencefun.org/kidszone/experiments/layers-of-liquids/>
- Lava Lamp: <http://www.sciencefun.org/kidszone/experiments/lava-lamp/>
- Sink or Float: <https://www.learning4kids.net/2014/04/15/floating-and-sinking-science-activity/>

Before Questions:

1. Describe the characteristics and properties of each substance.
2. Make a Prediction: What do you think will happen?

After Questions:

1. Describe the characteristics and properties of the new mixture, focusing on your senses:
 - What does it look like?
 - What does it sound like?
 - What does it smell like?
 - What does it feel like?
2. Why did the substances react the way they did? Explain in your own words using proper scientific vocabulary.
Draw a diagram to help explain what happened.
You may need to do further research or use the Science Notes.