

Sixth Grade Lab Sheet/

Name of Lab

Date

First and Last Name

Question: _____

Hypothesis: _____

Procedure/Design:

Materials

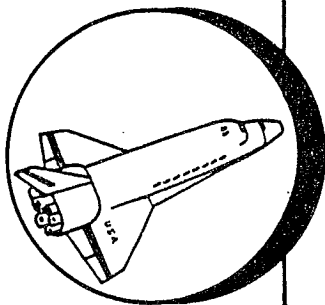
Steps

Observations and Data:

Conclusion: _____

Include:

Chart
Try for 3 juices
Adult Signature



Name: _____

Due Date: _____

Dear Family,

We will learn about the chemical properties of matter, that is, how substances react with other substances. A chemical change occurs when substances react to form new substances with new properties. For example, two liquids can combine to form a solid.

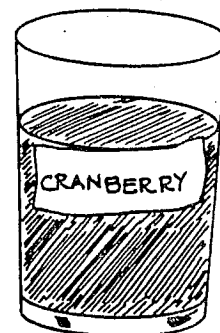
You and your student can do this activity together to learn more about chemical changes.

Do Fruit Juices Contain Iron?

Tea contains substances that react with iron in fruit juices. When the tea reacts with iron, solid particles form. The solid particles make the juice look cloudy. You can use this information to test which juices contain iron.

You will need several small, clear juice glasses, masking tape, marker, strong tea, pencil and paper, and a variety of fruit juices, such as apple, cranberry, fruit punch, orange, prune, pineapple.

1. Copy the chart at the bottom of the page onto a separate sheet so that you can record your observations.
2. With the masking tape and marker, label one glass for each type of juice.
3. Pour about 3 cm (1 inch) of tea into each glass.
4. Label another set of glasses, one for each type of juice.
5. Pour about 6 cm (2 inches) of juice into the empty glass with its name.
6. Record how each juice looks. Is it clear or cloudy?
7. Now pour about 3 cm (1 inch) of juice into the glass (with its name) that contains the tea.
8. Observe the tea and juice mixture. Compare it with the juice without the tea. Ask, "How has the juice changed?" (Some of the juices will become cloudy. If the juice is cloudy to begin with, it might be hard to tell if new solid particles have formed.)
9. If you are unsure about a result, repeat the test.
10. Which juices contain iron? (the cloudy ones) Compare your results with the nutritional information on the juice container.



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Do Fruit Juices Contain Iron?				
Juice	Clear or Cloudy Without Tea	Clear or Cloudy With Tea	Contains Iron (Cloudy)	Contains Iron (Based on Label)