

Adding Heat

Summary

A balloon-covered flask with water in it is heated. Changes are recorded. There will be changes in the states of matter and a volume change while the total mass stays the same.

Main Core Tie

SEEd - Grade 6

[Strand 6.2: ENERGY AFFECTS MATTER Standard 6.2.2](#)

Additional Core Ties

SEEd - Grade 6

[Strand 6.2: ENERGY AFFECTS MATTER Standard 6.2.3](#)

Time Frame

1 class periods of 60 minutes each

Group Size

Small Groups

Materials

150 ml flasks
600 ml beaker
balloons
water
goggles
graduated cylinders
hot plates or alcohol burner and wire stand
triple beam balance
- [worksheet](#)

Background for Teachers

Students will need to wear goggles during the entire lab.

Instructional Procedures

TODAY is the day that I promised you was coming.....today you get to blow something up.
Put 25ml of water into the Flask. Put the balloon over the top of the Flask. Fill the beaker to 100ml with water. Measure the Mass of the flask. Put on goggles.
On the back of the student worksheet have them divide it into 8 areas. In the first area sketch the flask with the balloon.
Plug in the hot plate, put the beaker on the hot plate. Put the flask with water into the beaker.
Time for 10 minutes. Every 2 minutes sketch the balloon and the flask on the back of this paper

Assessment Plan

1. Complete, best effort, used equipment correctly and safely.....4
2. Complete, best effort,3
3. Partially complete and lacking effort.....2

4. Started lab and did not complete.....1

Bibliography

Lesson Design by Jordan School District Teachers and Staff.

Authors

[Utah LessonPlans](#)