

## THE CUBE EXPERIMENT

SPI 0807 Inq 1: Design a simple experimental procedure with an identified control and appropriate variables.

SPI 0807 Inq 4: Draw a conclusion that establishes a cause and effect relationship supported by evidence.

Rubric:

Individual step sheet \_\_\_\_/20

Individual illustration \_\_\_\_/20

Group step sheet \_\_\_\_/20

Group illustration \_\_\_\_/20

Changes made along the way \_\_\_\_/10

Conclusion \_\_\_\_/10

Extra Credit:

The golf ball was suspended inside the cube \_\_\_\_/5

Task:

Using the scientific method, construct a cube that will suspend a golf ball inside of it using the following materials:

15 straws

8 pipe cleaners

golf ball

Directions:

Your group will brainstorm how to build a cube using the materials above and the cube must suspend a golf ball inside of it. The golf ball may not touch the desk.

1. Brainstorm individually and create a step-by-step sheet
2. Illustrate your final idea on your paper to show your group your idea
3. Talk with your group and come up with one step-by-step sheet for your final product
4. Illustrate your final idea as a group BEFORE you begin
5. Build
6. Along the way, record changes you made to your step sheet
7. Record your final conclusion and if/why your hypothesis and original group plan worked and why/why not.