

# DRAFT

## Georgia Performance Standards

### High School Physical Science

#### **The task**

High School students become involved in problem solving in this physics lab. By throwing a Frisbee, they are able to make and verify predictions about air friction, gravity, and lift as related to distance traveled by the toy.

#### **Circumstances of performance**

This sample of student work was produced in class and for homework, in a group.

#### **What the work shows**

##### **Characteristics of Science**

##### **Habits of Mind**

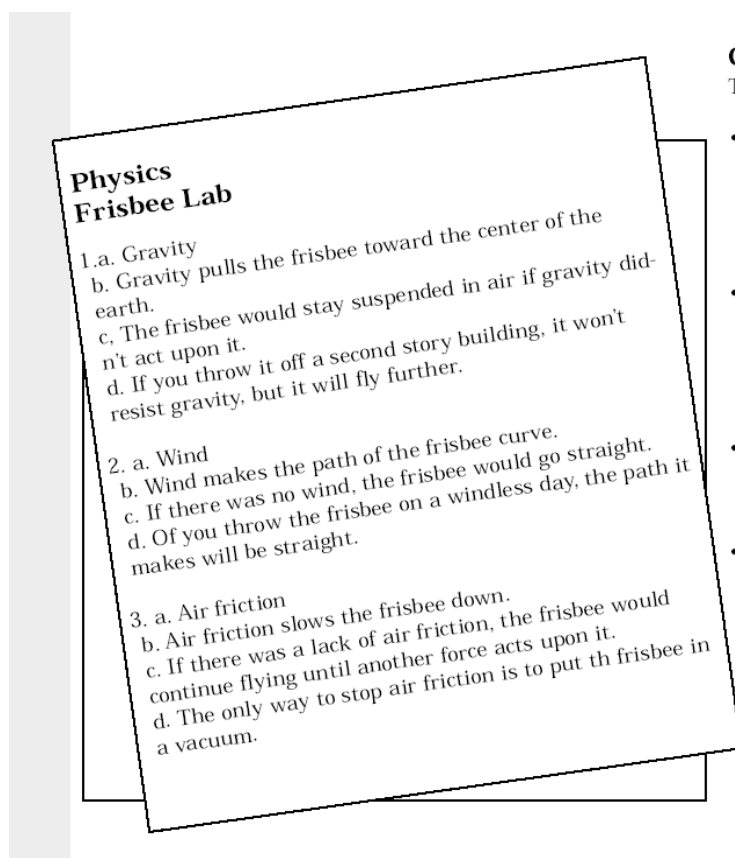
##### **SCSh5. Students will be able to communicate scientific ideas and activities clearly.**

- Write clear, coherent accounts of scientific activities, including possible analyses and alternative interpretations of the results.
- Make and use tables, charts, graphs, and scale drawings to make scientific arguments and claims in oral and written presentations.

##### **Content**

##### **SPS7. Students will be familiar with the relationship between force, mass, and motion**

- Students will explore the relationship between force, mass and motion.
- Students will demonstrate a conceptual understand of Newton's Laws of Motion.



#### **Commentary**

The Sample:

- Demonstrates an understanding that moving objects behave according to certain general principles.
- Describes the effect of gravity, wind, and air friction on the path of an object, in this case, a frisbee.
- Predicts the effect of lack of gravity, wind, and air friction.
- Uses drawings to illustrate phenomena.

# DRAFT

## Georgia Performance Standards

### High School Physical Science

