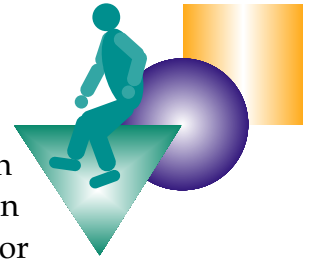


Station 5: Time to Get Up

Student Data Pages



Identifying Variables:

In this activity, you will be conducting an experiment. This experiment has an *independent variable* and a *dependent variable*. The independent variable in an experiment is the variable chosen by the experimenter and it is manipulated or changed by the experimenter. The *dependent variable* is measured for the effect the *independent variable* has on it. Identify the *independent* and *dependent variables* in this experiment.

Independent variable: _____

Dependent variable: _____

In order to have a *controlled experiment*, all variables except the independent and dependent variables must be controlled. This is done by making sure that they are the same for all test groups. These are called *constants* in an experiment. List 3 variables that are made constant in this experiment.

Using an *“if, then”* statement, write a *hypothesis* that predicts how the extra weight will affect the time to get up from a lying position and travel a certain distance. Be sure to explain why you think this to be true.

Data Table

<i>Trials</i>	<i>Time Without Added Weight (Seconds)</i>	<i>Time With Added Weight (Seconds)</i>
1		
2		
3		
Average		



Processing Out

1. Was your hypothesis right or wrong? Explain your answer using your data.



2. Why is it necessary to have 3 trials in an experiment?

3. What did the test subject do differently when the weight was added?

4. How does this demonstrate the effect obesity has on daily activities?

5. Which body systems would be affected if you are obese and trying to complete daily tasks?

6. Predict what would happen if the test subject was wearing high heels or carrying a heavy backpack with the extra weight. Explain your answer.

Station 5



LESSON 3
ACTIVITY 3B

Mo-Bility