

Lesson 3 Newton's Second Law

Scan Lesson 3. Read the lesson titles and bold words. Look at the pictures. Identify three facts that you discovered about Newton's second law of motion. Record your facts in your Science Journal.

Main Idea

How do forces change motion?

I found this on page _____.

I found this on page _____.

I found this on page _____.

I found this on page _____.

I found this on page _____.

I found this on page _____.

Newton's Second Law of Motion

I found this on page _____.

Details

Identify 2 characteristics of motion that can be changed by forces.

1. _____ 2. _____

Cite the effect of forces on an object at rest.

Force	Effect
balanced	
unbalanced	

Describe the effect of forces on an object in motion.

Force	Effect
in the direction of the object's motion	
in a direction other than that of the object's motion	

Recall the difference between velocity and acceleration.

Velocity	Acceleration

Summarize Newton's second law of motion.

The _____ of an object is equal to the _____ exerted on the object _____ the object's _____.

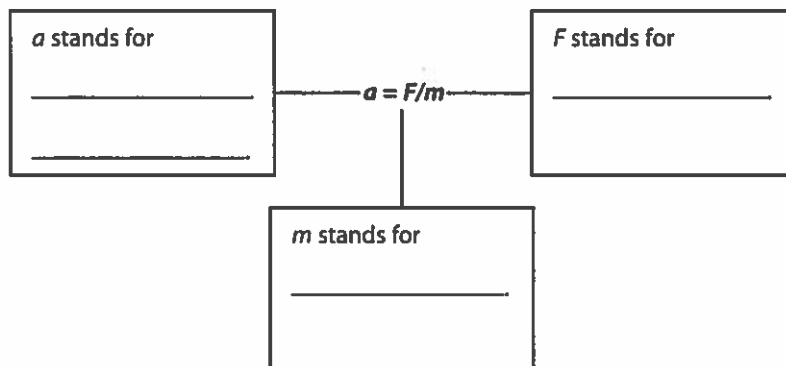
Lesson 3 | Newton's Second Law (continued)

Main Idea

I found this on page _____.

Details

Explain the equation for Newton's second law.



Circular Motion

I found this on page _____.

Model centripetal force in a drawing of an object in circular motion. Use arrows of different colors to complete the key and to represent forces in the drawing.

Key	
Velocity	---→
Acceleration	---→
Centripetal force	---→



Connect It When you begin pedaling a bike, you apply forces that set you and the bike in motion. Explain why you have to keep pedaling a bike to keep moving, and identify the forces that slow and stop you.
