Predict *three facts that will be discussed in Lesson 2 after reading the headings. Record your predictions in your Science Journal.*

Main Idea

Identifying Forces

I found this on page _____ .

I found this on page _____ .

I found this on page _____ .

I found this on page _____ .

Details

Draw *the described forces. Use labeled arrows to indicate the forces on a box, and show the* **net forces** *in the column to the right.*

Description	Drawing	Net force
1. A force of 200 N to the left and another force of 50 N to the left		
2. A force of 100 N to the right and a force of 80 N to the left		
3. A force of 180 N to the right and a force of 180 N to the left		

Identify *the forces in the table above as* balanced forces *or* unbalanced forces.

1. _____

2. _____

3. _____

Lesson 2 | Newton's First Law (continued)

Main Idea	**Details**

Newton's First Law of Motion

I found this on page _____ .

👉 **Summarize** Newton's first law of motion.

If the net force on an object is zero,	an object at rest _____
	an object in motion _____
	_____

I found this on page _____ .

👉 **Contrast** *the motion of objects acted on by* balanced *and* unbalanced forces.

object's motion + _____ forces

= _____ velocity

object's motion + _____ forces

= changed _____

I found this on page _____ .

👉 **Explain** *the effect of* inertia *on objects at rest and objects in motion.*

_____

_____

_____

_____

Why do objects stop moving?

I found this on page _____ .

👉 **Summarize** *how friction and* inertia *act on an object sliding on a flat surface.*

_____

_____

👉 **Synthesize It** Look at the objects around you that are at rest. Explain why they are subjected to net forces of zero as opposed to no forces at all.

_____

_____

_____

_____