Cesson 1 Gravity and Friction

Scan Lesson 1. Write three questions that you have about gravity and friction in your Science Journal. Try to answer your questions as you read.

Main Idea	Detc.	ii s #9.44.8 - 5.9 (* 1.10 + 1			
Types of Forces I found this on page	Model forces on an object. Change the lines to arrows, and label them "push" or "pull."				
	v	object			
	g v - 3a - 5				
Taring a	Contrast types of forces,	and give an example of each.			
	Contact Forces	Noncontact Forces			
I found this on page	Description:	Description:			
	■ 「	2,			
	0 20 0 69				
I found this on page	Example:	Example:			
- W - 3		* % *** 170			
I found this on page	Draw arrows to represent the de	scribed forces.			
15 mm	Description	Drawing			
# #2	35.0				
	A slight downward force on the object	object			

A greater upward force than the downward force illustrated above object

Lesson 1 | Gravity and Friction (continued)

Main Idea

What is gravity?

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Details ---

Distinguish mass and gravity.

Mass	Gravity

Cite the law of universal gravitation.

Illustrate the relationship between gravitational force and mass. Draw arrows in the diagrams to indicate the size and direction of the attractive force of each object.

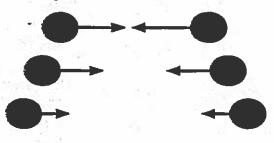
Description	Diagram		
Objects with smaller masses			
Objects with larger masses			
Objects with different masses			

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- Details

Describe the relationship between gravitational force and distance as shown in the diagram.



Assess the information about gravity, mass, and weight. Read each statement. If it is true, write T in the center column. If it is false, write F in the center column and replace the underlined words to make the statement true.

Statement	T or F	Corrected	Statement
Mass is a gravitational force exerted by an object.	12 22 E	an n	
An object's <u>weight</u> is proportional to its <u>mass</u> .		= = = 00	e esti
Mass is measured in newtons.			V h _d
If an object has twice the <u>size</u> of another object, it has <u>half</u> the weight.			
An object's <u>mass</u> decreases the farther it gets from Earth's surface.			

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Lesson 1 | Gravity and Friction (continued)

Main Idea ... **Details** Complete the concept map about friction. Friction I found this on page _ Friction Definition: I found this on page ____ sliding friction prevents two occurs between a surfaces from surface and a sliding past each material that flows other Cite two reasons friction occurs between surfaces. I found this on page _____. I found this on page _ **Explain** how lubricants reduce friction. Connect It Describe how the forces of gravity and friction affect the motion that occurs as you write on this page.