

Grade 7 Final Exam Review

Describe the causes of weathering below:

Freezing & Thawing:

Plants (vegetation):

Abrasion:

Acid Rain:

Oxidation:

Describe, in your own words, the processes below. Be sure to include if it is caused by solar energy increase, energy decrease, biological causes, or gravity.

Precipitation:

Capillary Action:

Condensation:

Consumption:

Evaporation:

Urination:

Freezing:

Collection:

Thawing/Melting:

Filtration:

Transpiration:

Groundwater:

In the space below, use words, pictures, or both to describe the rock cycle. Be sure to include all three main types of rock, along with the forces that create them.

Draw the three classes of levers below. Be sure to label the effort, the load, and the fulcrum for each.

Which class of lever decreases the amount of effort required to lift the load most?

In a class 1 lever:

What happens to the effort when it is moved closer to the fulcrum?

What happens to the effort when the load is moved closer to the fulcrum?

Write Newton's three laws below. For each, describe a real-life example:

Law 1:

Example:

Law 2:

Example:

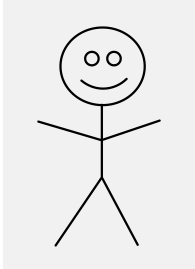
Law 3:

Example:

Define potential energy:

What are two properties that can impact potential energy?

This is Frank:



Draw two pictures of Frank that give him two different amounts of potential energy. Describe why Frank has more potential energy in one than the other.

Define kinetic energy:

Describe the three parts of cell theory below:

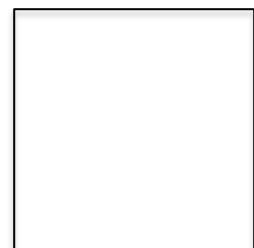
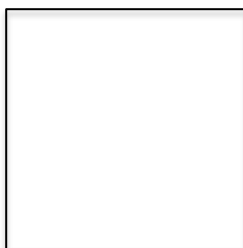
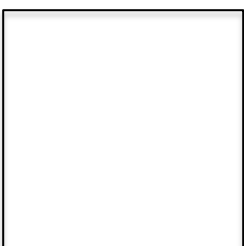
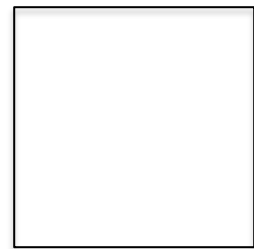
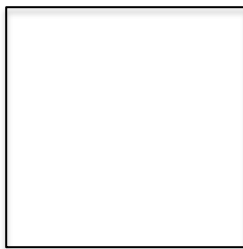
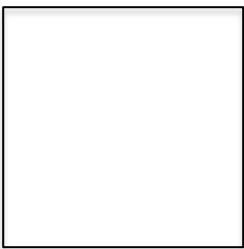
Part 1:

Part 2:

Part 3:

Scientists have been studying cells since they were first found in the late 17th century. Give at least 3 pieces of evidence that scientists have found that support cell theory.

Use the boxes below to draw, name, and describe each stage of mitosis (cell reproduction) in order.



Organelle	Job/Description
Nucleus	
Cell Membrane	
Cell Wall	
Mitochondria	
Chloroplast	
Endoplasmic Reticulum	
Ribosomes	
Vacuole	
Cytoplasm	
Golgi Apparatus (bodies)	

Which two organelles does a plant cell have that an animal cell doesn't? Why?