

2.2 Energy in the Earth System

Name _____

2.3 Ecology

Date _____

List 4 facts about systems.	
What is a closed system?	
What is an open system?	
Explain what type of system is the Earth.	
Describe 4 spheres of the earth	
1 st Law of Thermodynamics states	
2 nd Law of Thermodynamics states	
What type of system are the 4 spheres?	
Name 2 internal sources of heat	
Describe how heat moves by convection.	
Name 2 external sources of heat.	
Define reservoir.	
<p>Fold notebook paper into 4 sections and draw lines to divide. Label each section with one of the 4 cycles on page 36-38. Read about each cycle and draw a diagram for each cycle as you read. Compare your diagram with the ones in the book. Cite how they are different.</p>	
Nitrogen Cycle-how does your diagram differ from the one in the textbook?	Carbon Cycle-how diagrams differ?

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Phosphorus Cycle-how diagrams differ?		Water Cycle-how diagrams differ?	
Human Activities	How burning fossil fuels affect natural cycles?		
	Cite ways agriculture affects natural cycles?		
2.3 Ecology			
Define ecology.			
Parts of Ecosystem	Producers		
	Consumers		
	Decomposers		
Define carrying capacity			
Describe how the sun's energy is transferred.			
Draw an energy pyramid as described in book. Explain how 2 nd Law of Thermodynamics relates to the energy pyramid.			
What is a food web?			
List 3 ways humans disrupt ecological balances.			
On the back of the notebook paper used for CH 2.2, complete page 38-#12 and page 42-#11. For help with concept maps-see page 819. Include strong connecting words.			