1st Semester Midterm Study Guide: Midterm: January 10th, 2017

Questions:	Answers:
Describe the gas composition of the atmosphere.	
Arrange the main layers of the atmosphere from	
Earth to space.	
In which layer of the atmosphere is air pressure	
greatest near the surface of the Earth?	
The Water Cycle C. C. B. C. Move and the second secon	
precipitation, surface-water flow, evaporation,	
groundwater flow, transpiration, and condensation.	
Draw and describe the shape of a cumulus cloud.	
what are low, layered clouds that produce light precipitation called?	
Cumulus clouds signal what type of weather conditions?	
Describe the type of weather cumulonimbus clouds	
bring.	
Describe a stationary front.	
Describe a cold front.	
An front consist of two cool air	
masses merging, and forcing the warm air mass up.	
A front forms when warm air moves	
Identify what each weather instrument measures:	
A. Barometer	
B. Thermometer	
C. Anemometer	
D. Rain Gauge	
E. Sling Psychrometer	
F. Wind Vane	
Be able to describe the cloud cover, barometric	
pressure, and wind speed, given a station model and	
a map key. Cold front Warm front Stationary front Occluded front Clear Partly cloudy Cloudy Rain RThunderstorm * snow Fog @ Report missing Hurrkcane Steet Wind direction West wind East wind Wind Scale (mph) Ccalm 01-2 03-8 05-14 015-20 021-25 026-31 032-37 038-43 044-49 050-54 055-60 61-66 67-71 072-77	
Define isobars.	

Describe the images used for seeing cloud patterns	
and movement.	
Define solar energy.	
What process takes place when solar energy is	
absorbed by Earth's land and water surfaces?	
What is the cause of global winds?	
Explain the reason climate zones occur.	
Which winds blow from east to west in the tropical	
region moving warm tropical air in that climate zone?	
Which winds blow from west to east in the	
temperate region?	
What is a fast-moving ribbon of air that moves	
around the globe of Earth dipping and bending and	
constantly changes positions.	
Explain the energy flowing in an electric circuit.	
Identify mechanical energy that is related to the	
position of an object.	
Identify mechanical energy an object has due to its	
motion.	
Explain the Law of Conservation of Energy.	
What forms when a wire in an electric circuit is	
wrapped around an iron core producing a magnetic	
field?	
How do power plants produce electric energy for our	
nomes?	
which poles of a magnet attract?	
Identify the four ways electrical energy can be	
transformed in electrical circuits.	
Draw and label the three components of an electric circuit.	
Draw an example of convection.	
Draw an example of <u>conduction</u> .	
Draw an example of <u>radiation</u> .	
Evaluin a property that enables something to do	
work.	
Explain the meaning of work.	
Be able to identify examples of evidence of energy	
(work being done).	
Look around the classroom and make two	
quantitative and two qualitative observations as well	
as <u>two inferences</u> .	
Be able to identify correct and incorrect lab safety	
procedures in a image provided.	