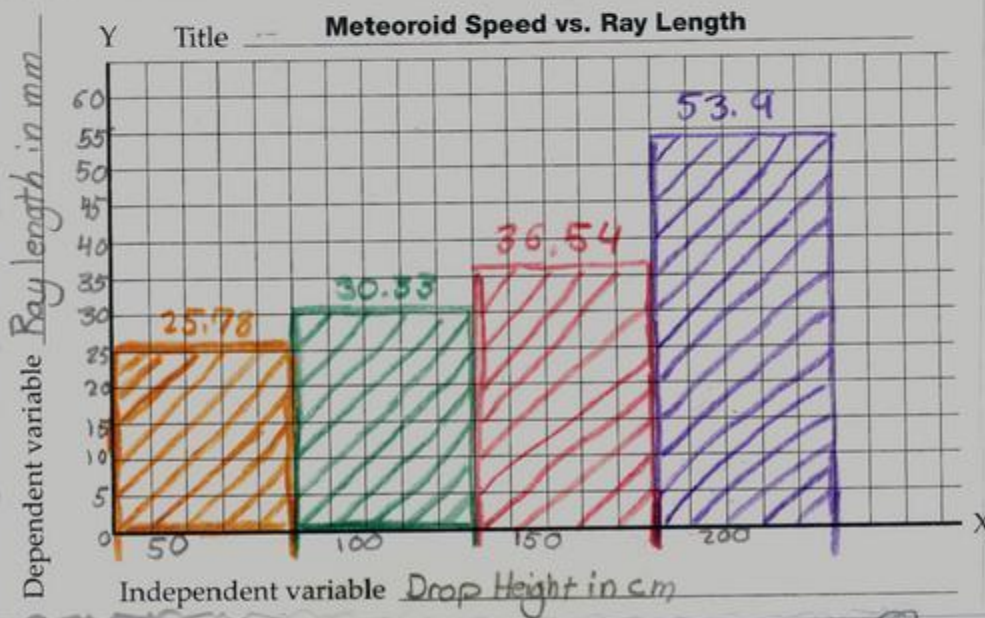
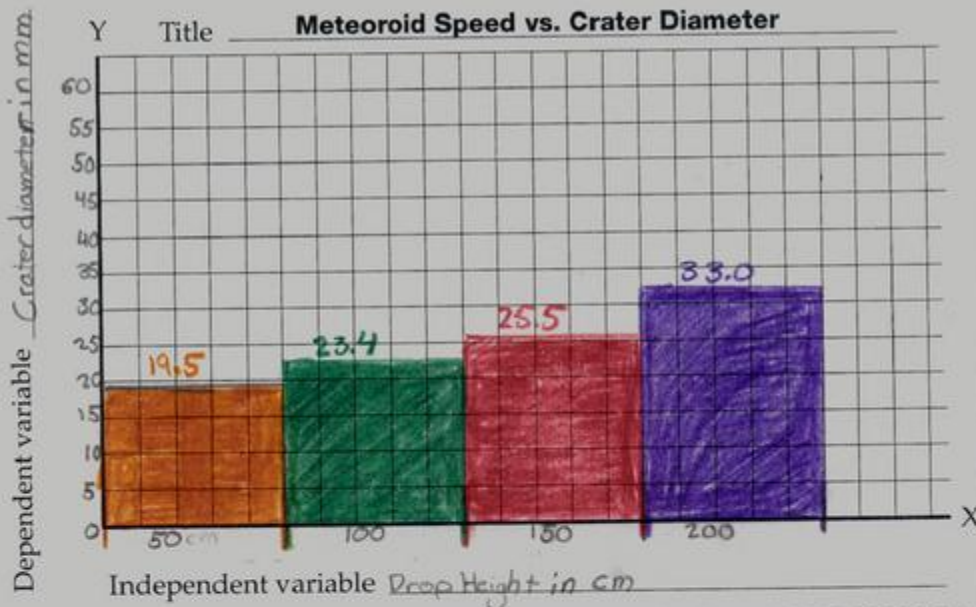


CRATER-DIAMETER AND RAY-LENGTH GRAPHS



Middle School Earth/Space Science Example #1

NGSS: PE	NGSS: DCI	NGSS: SEP	NGSS: CC	CCSS: ELA	CCSS: MATH
MS-PS3-1	PS3.C Relationship Between Energy and Forces	Analyze and Interpret Data	Scale, Proportion and Quantity	RST.6-8.1, RST.6-8.3	6.SP.B.5

Student Sheet 11.1 Simulating the Motion of Earthquake Waves

Directions Fill in the table as you perform the inquiry. Then answer the questions.

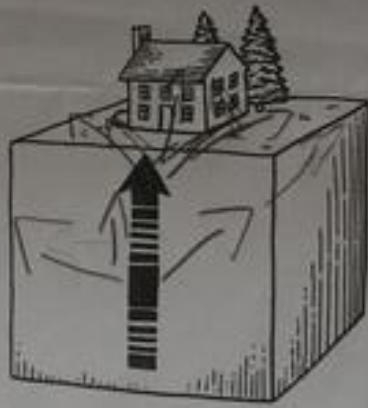
Title: _____

Type of Earthquake Body Wave	Sketch of How Spring Moves	Time for Wave To Travel Back and Forth One Complete Trip (seconds)			
		Trial 1	Trial 2	Trial 3	Average
Pull and Push (P-wave)		2:69	2:41	2:15	2:28
Side to Side (S-wave)		2:51	2:84	2:41	2:78

1. Write P-wave or S-wave below each picture.



A. S-wave



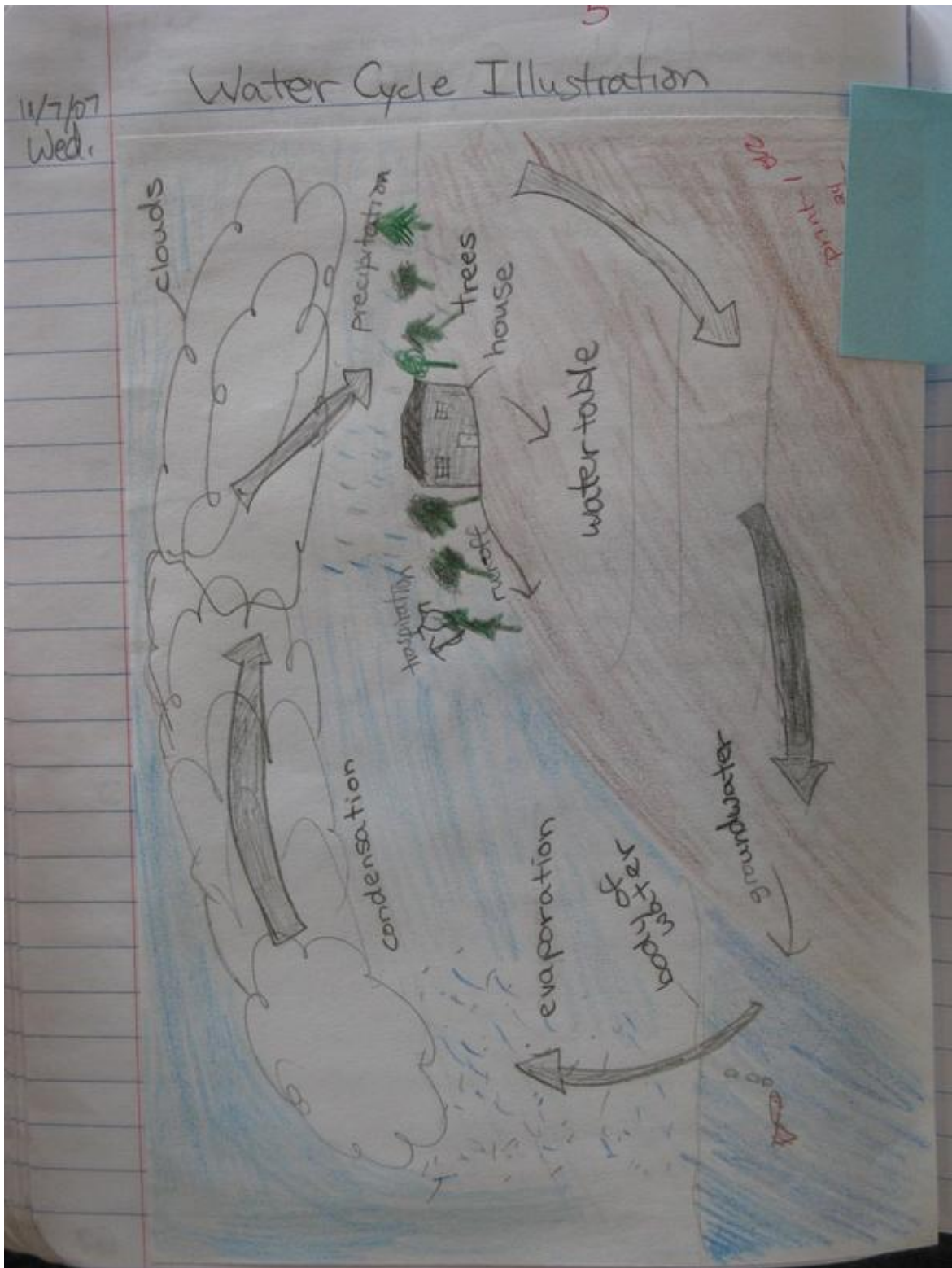
B. P-wave

2. Think about how the tape on the spring moved. Draw arrows on each house in Question 1 to show how the earthquake body wave might move the ground.

3. Place tape all along the surface of the spring and move the spring from side to side. How do you think a side-to-side wave on the surface of the earth moves the ground?

Middle School Earth/Space Science Example #2

NGSS: PE	NGSS: DCI	NGSS: SEP	NGSS: CC	CCSS: ELA	CCSS: MATH
MS-PS4-2	PS4.A: Wave Properties	Obtain, Evaluate and Communicate Information	Patterns	SL.8.5	



Middle School Earth/Space Science Example #3A

NGSS: PE	NGSS: DCI	NGSS: SEP	NGSS: CC	CCSS: ELA	CCSS: MATH
MS-ESS2-4	ESS2.C The Roles of Water in Earth's Surface Processes	Developing and Using Models	Energy and Matter	RST.6-8.7, SL. 8.5	MP.2

11/7/07
Wed.

Water Cycle Description ²⁵

A water cycle is a cycle with land, the movement of water and the heating, cooling, and movement of air. When precipitation, any form of water, falls to the ground from a cloud, it will make a water table, water that soaks into the land, or turn into run-off, water that flows on the surface of the land. Then, the water table will turn to groundwater, small streams or rivers underground, and eventually join a large body of water with the run-off. Next, the sun would evaporate, ^{the water} or warm the large body of water, and let it float lightly and form a cloud. There also will be transpiration, when plants let out water vapor. Then, as the cloud gets too much water and cools down it will condense, gather too much water, and turn into some kind of precipitation. Land, the movement of water, and the heating, cooling, and the movement of air is needed to make a water cycle.

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Middle School Earth/Space Science Example #3B

NGSS: PE	NGSS: DCI	NGSS: SEP	NGSS: CC	CCSS: ELA	CCSS: MATH
MS-ESS2-4	ESS2.C The Roles of Water in Earth's Surface Processes	Developing and Using Models	Energy and Matter	RST.6-8.7, SL. 8.5	MP.2