



Name: _____

Fundamentals of Earth Science: **Week 3 HOMEWORK CHECKLIST**

3rd & 4th Grade

Due on September 15th

_____ **(1 point) Read Lesson 3: Everything's in Pieces!**

The lesson page was handed out in class and should be in the front of your binder. Read the lesson or have a parent read it to you. When you are done reading, put the lesson sheet behind the lesson tab in your binder. *Parents: This lesson was written with the older grades in mind. It is expected that you simplify the reading when necessary according to the needs of your child. The parts of the lesson that I expect the lower grades to comprehend are covered in class. I will expect them to have a general knowledge of the concepts, NOT all of the terminology.*

_____ **(2 points) Reinforcement and Review: Plate Tectonics**

_____ Watch video, **What is Pangaea and Plate Tectonics?:** https://www.youtube.com/watch?v=AqrInJ8_Nes (Note: there is a reference of 240 millions of years) **OR** rewatch this video from last week: **Plate Tectonics for Kid:** <https://www.youtube.com/watch?v=bVn04eJRjV4>

_____ **Make a Puzzle using the Plate Tectonics Map Handout.** First, color the land green and the water blue. Then, cut around the outside of the map along the solid, bold lines. Next, cut the map into 9 big pieces of your choosing, following the solid black lines as best you can. Do not try to cut out all of the smaller plates individually. Include them with the larger plates so you have fewer and bigger pieces. When you are finished cutting, try putting the puzzle back together while thinking about the three ways that the boundaries interact. Store your puzzle pieces in the envelope on page 20 of your lab notebook.

_____ **(1 point) Learning About Earthquakes**

_____ **What Causes Earthquakes? (SciShow):** https://www.youtube.com/watch?v=AArne-wh_Uc

_____ **(4 points) Learning about Volcanoes**

_____ Watch video, **All About Volcanoes (SciShow):** https://www.youtube.com/watch?v=K7Oq9_DU1Mc

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_____ **How a Volcano Erupts** booklet—Located on page 22 of your lab notebook, in the plastic pocket. Read the steps in how a volcano erupts. Color the title and pictures if you wish.

_____ **Volcano Model Eruption!** Follow the instructions posted on the website to make the volcano model you made in class erupt!

_____ **Parts of a Volcano Cut and Paste** handout— Cut out the 12 volcano part pieces and glue into the correct box on the volcano diagram. Cut out the diagram and glue onto page 23 of your lab notebook. Try your best to figure out the answers on your own. The answer key link is listed below if you need help.

<https://www.timvandevall.com/r250-004-volcano-diagram-volcano-worksheet/>

_____ **(1 point) Research a Topic of Your Choice—FOR A GRADE**

Choose one of the topics below related to plate tectonics. Research it with a parent's help. A pre-screened video list is provided on the class website to aid in your research. Record what you have learned on pages 24 and 25 of your lab notebook, including at least one picture or diagram. This can be a print out or hand-drawn. **Third grade will need to include at least 3 facts and fourth grade will need to include at least 4 facts.** Please do your best work. This assignment will be graded when lab notebooks are collected for the quarter's grading at a later time. **However, students will be asked to share their pages with the class next week and briefly tell one thing that they learned.**

Topics to Choose from: *Tsunamis, the Mariana Trench, different ways mountains are formed, seismology, careers in geology, a famous earthquake event in history, famous volcano event in history, different types of volcanoes, famous earthquake faults, creatures of the hydrothermal ocean vents, ocean mountain ranges, islands created by volcanoes. (you are also welcome to choose your own topic related to plate tectonics)*

Extra Credit Opportunity: *For 3 points extra credit, you may choose a second topic and record what you've learned on a separate piece of paper, following the same guidelines above. This is to be turned in no later than September 22nd.*

Parent Signature: _____

Homework Completion Grade _____/9 points