|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| HOW IS EARTH CHANGING? Lesson question: HOW DID THE EARTH LOOK IN THE PAST? | | | | |
| What did we do? | What did we observe? | What have we figured out so far? | How does this help answer our question? | What questions do we Have? |
| Part 1:  Divided into groups and looked at phenomena and Wegener’s evidence.  Part 2:  Looked at maps of the ocean floor  Modeled sea floor spreading. | Same type of animal and plant fossil and rock sequence (rare- same age and layering ) found in W. Africa and N.E side of. S. America matched up but divided by the Atlantic ocean. (these fossils only found in these two places).  Antarctica had plant fossils and animal fossils which normally found in hot/warmer climate  The continents looked like they fit together  300 million years ago ice sheets in N. America and Australia, Africa and India.  The rocks on the ocean floor are different ages.  The youngest rocks are on the MOR and the oldest are farther away from the MOR  There are trenches (canyons) on the ocean floor  The ocean floor is volcanic rock (origin).  There are mountain ranges on the ocean floor. (MOR) (shallow)  Ocean floor rock is younger than continental rock.  Sea floor spreading model:  Observed sea floor spreading apart at MOR creating new rock.  Plates are moving away from at MOR | The continents are where they are today because MOR creates new ocean rock which spreads out the ocean floor old rock.  The continents are constantly moving because of the movement on the ocean floor.  The continents are in their current position, because of the new ocean floor created at the MOR.  Wegener theory of continental drift is confirmed  \*\***New material is constantly being added to the edges of some plates which has created new ocean floor between continents** | New ocean floor created at MOR  Continents are constantly moving causes changes in the Earth.  We have an idea of what the past Earth looked like, so we can “predict” what it might look in the future and we know that it did change from how we currently see it. | Was the Earth ever made up of many tectonic plates?  Is our Earth becoming smaller?  Has Jupiter always been the same size?  How is the rock being made?  **Are pieces being melted back into the mantle and if so, how?**  **Is our Earth expanding?** |

UNIT 1: LESSON 2 SUMMARY TABLE HR. \_\_4\_\_