**Structures of the Earth**

**Name: Date:**

1. **(E.2.1.) What is the composition of the Inner Core?** 
   1. **Crustal Plates & Ocean Basins**
   2. **Liquid Iron**
   3. **Solid Iron**
   4. **Liquid Rocks & Magma**
2. **(E.2.1.) What is the composition of the Outer Core?**
   1. **Crustal Plates & Ocean Basins**
   2. **Liquid Iron**
   3. **Solid Iron**
   4. **Liquid Rocks & Magma**
3. **E.2.1.) What is the composition of the Mantle?**
   1. **Crustal Plates & Ocean Basins**
   2. **Liquid Iron**
   3. **Solid Iron**
   4. **Liquid Rocks & Magma**
4. **(E.2.1.) What is the composition of the Crust?**
   1. **Crustal Plates & Ocean Basins**
   2. **Liquid Iron**
   3. **Solid Iron**
   4. **Liquid Rocks & Magma**
5. **(E.2.1.)What is the order from greatest density to least density of the layers of the Earth?**
   1. **Outer Core/Inner Core/Mantle/Crust**
   2. **Inner Core/Outer Core/Crust/Mantle**
   3. **Inner Core/Inner Core/Mantle/Crust**
   4. **Inner Core/Outer Core/Mantle/Crust**
6. **(P.2.3.) What is Density?**
   1. **How fast a substance dissolves in liquid**
   2. **How tightly packed together atoms are**
   3. **Temperature at which a substance boils**
   4. **Temperature at which a substance melts**
7. **(E.2.1.) Which best describes the composition of the Earth’s Core?**
   1. **It contains a solid outer region surrounding a liquid iron core**
   2. **It contains a liquid outer region surrounding a solid iron core**
   3. **It contains a semi-liquid rock outer region surrounding a liquid core**
   4. **It contains basalt, semi-liquid outer region surrounding a solid core**
8. **(E.2.1.) Which best describes the Earth’s Crust?**
   1. **It is stationary and unable to move**
   2. **It is thicker than the mantle and the core**
   3. **It is located between the outer & inner core**
   4. **It is composed of crustal plates and oceanic plates**
9. **(P.3.1.) What is the role of convection in the movement of crustal & oceanic plates?**
   1. **Liquid magma is pushed up through convection from the center of the mantle causing the crustal plates to move**
   2. **Convection doesn’t play a part in the movement of crustal plates & ocean basins**
   3. **The solids are touching causing convection**
   4. **Magma is radiating on the crustal plates causing them to move**
10. **(E.2.1.) What causes movement of tectonic plates?**
    1. **Gravitational pull between the Earth & Moon**
    2. **Convection occurring beneath the Earth’s curst**
    3. **Energy produced by Earthquakes within the Earth**
    4. **Rotation of liquid rock found within the core**
11. **(E.2.3.) How does parent rock relate to soil formation?**
    1. **Gives soil its Texture & Color**
    2. **Gives Soil its Smell & Texture**
    3. **Give Soil its Color & Smell**
    4. **It doesn’t relate to soil formation**
12. **(E.2.3.) How does environment relate to soil formation?**
    1. **Provides Smell & Color to the soil**
    2. **Provides Texture & Color to the soil**
    3. **Environment doesn’t affect soil formation**
    4. **Provides Temperature & Moisture to soil**
13. **(E.2.3.) What are the characteristics of the most fertile soil?**
    1. **Course Texture/Dark Color/Holds lots of Water**
    2. **Fine Texture/Light Color/Holds lots of water**
    3. **Fine Texture/Dark Color/Holds lots of Water**
    4. **Fine Texture/Dark Color/Doesn’t hold water**
14. **(E.1.1.) What type of parent rock produces the best fertile soil?**
    1. **Fine Textured/Dark**
    2. **Fine Textured/Light**
    3. **Course Textured/Dark**
    4. **Course Textured/Light**
15. **(E.2.3.) What type of environment produces the best fertile soil?**
    1. **Cool Temperature/Low amounts of Moisture**
    2. **Cool Temperature/High amounts of Moisture**
    3. **Warm Temperature/High amounts of Moisture**
    4. **Warm Temperature/Low amounts of Moisture**
16. **(E.2.4.) Why is it important to monitor the quality of our soil, air, and water?**
    1. **We want to protect Whales**
    2. **For the protection of the Platypus**
    3. **To ensure the survival of African Elephants**
    4. **To ensure the survival of Human Kind**
17. **(E.2.4.) What is Stewardship?**
    1. **Act of taking action to protect & take responsibility for something**
    2. **Another word for pollution**
    3. **Another word for air quality**
    4. **Act of planting trees**
18. **(E.2.4.) What affect have humans had on the quality of soil on Earth?**
    1. **They have not had an affect on soil quality**
    2. **Negative**
    3. **Positive**
    4. **Neutral**
19. **(E.1.1.) Why do we see “Moon Phases” on Earth?**
    1. **There is no such thing as moon phases**
    2. **Because the Earth is tilted 23 degrees**
    3. **Because the tides create bulges**
    4. **Because the moon changes positions in relation to the Sun & Earth**
20. **(E.1.1.) Why do we have Seasons of Earth?**
    1. **There is no such thing as moon phases**
    2. **Because the Earth is tilted 23 degrees**
    3. **Because the tides create bulges**
    4. **Because the moon changes positions in relation to the Sun & Earth**
21. **(P.3.2.) During a cooler day the sand at the beach is very warm, while at night it is cooler. Why does this occur?**
    1. **The sand reflects the sun’s energy during the day, causing it to become warmer**
    2. **The sand absorbs the sun’s energy during the day, causing it to become warmer**
    3. **The sand scatters the sun’s energy during the day, causing it to become warmer**
    4. **The sand refracts the sun’s energy during the day, causing it to become warmer**
22. **(P1.1.) How are Seismic, Electromagnetic, & Sound waves all related to each other?**
    1. **They all can transmit through solids, liquids & gasses**
    2. **They all transmit energy**
    3. **They are all made from photons**
    4. **They are different types of Earthquake waves**
23. **(P.1.2.) What is the relationship between eyesight & light?**
    1. **Light shines on all objects, allowing people to see them**
    2. **Light shines through all objects, allowing people to see them**
    3. **Light enters the eye before striking an object, allowing people to see the object**
    4. **Light reflects off an object and then enters the eye allowing people to see the object**
24. **(P.1.2.) What is the relationship between the Electromagnetic Spectrum & how we see?**
    1. **The Electromagnetic Spectrum contains Visible Light that the human eye can see**
    2. **The human eye can see Infrared Waves**
    3. **The human eye can see Ultraviolet Waves**
    4. **There is no relationship between the Electromagnetic Spectrum & how we see**
25. **(P2.2.) When heat is added to an object how does this affect the atoms in the object?**
    1. **Nothing happens to the atoms**
    2. **They spread apart**
    3. **They join together**
    4. **They stay the same**

**CONSTURCTED RESPONSE:**

**Please respond in constructed response form. You may use your rubric & Essential Standards.**

**(E.2.4.) Questions #1**

**Stewardship is the act of taking action to protect & take responsibility for something. There are 5 ways that we can practice Stewardship. Please list 2 of them and describe how they provide Stewardship to the Earth?**

**(E.2.4.) Question #2**

**Humans have had a negative affect on the soil quality of our Earth as a whole. There are 3 main reasons that contribute to humans ruining soil. Please list 2 of them and explain how doing these things negatively affects Earth’s soil.**

**(P.2.2.) Question #3**

**Please fill in all blanks of the chart you see on the whiteboard detailing the change phases & heat.**