Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Period \_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Layers of the Earth with OREOS!**

**Objective: Create a simple model to represent**

**the four layers of the Earth.**

**Materials:**

* **Oreo cookie with cream**
* **Chocolate syrup**
* **M & M**

**Procedure:**

**1. Carefully open Oreo cookie to keep cream on one side.**

**2. Eat the side of the Oreo without the cream.**

**3. Place a small amount of chocolate syrup in the middle of the cream part of the Oreo.**

**4. Place an M & M (with the ‘M’ face down) in the middle of the chocolate syrup.**

**5. Answer the following questions about what represents each layer of the Earth.**

**6. Follow along on the PPT for the fill-ins.**

**Questions:**

**1. The outside of the cookie represents what layer of the Earth? CRUST**

 **The CRUST is hard and rigid. It is the Earth’s OUTERMOST and**

 **THINNEST layer. The crust under the ocean is called the**

 **OCEANIC CRUST. It is approximately 7 to 10 km thick.**

 **The crust that forms the layers of rocks that forms the continents is called the CONTINENTAL CRUST. It is approximately 35 TO**

 **40 km thick.**

**2. The cream part of the cookie represents what layer of the Earth? MANTLE**

 **The MANTLE is subdivided into three regions, UPPER, MIDDLE and LOWER.**

 **It is a dense layer made of HOT, SEMISOLID ROCK located below the**

 **CRUST and is about 3000 km thick.**

**3. The chocolate syrup represents what layer of the Earth? OUTER CORE**

 **The OUTER CORE is the only LIQUID layer of the Earth. It is made**

 **of IRON and NICKEL It is about 2,260 km thick.**

**4. The M & M represents what layer of the Earth? INNER CORE**

 **The INNER CORE is an extremely hot and SOLID sphere**

 **made of IRON and NICKEL. It is located at the center**

 **of the Earth. It is about 1220 km thick.**