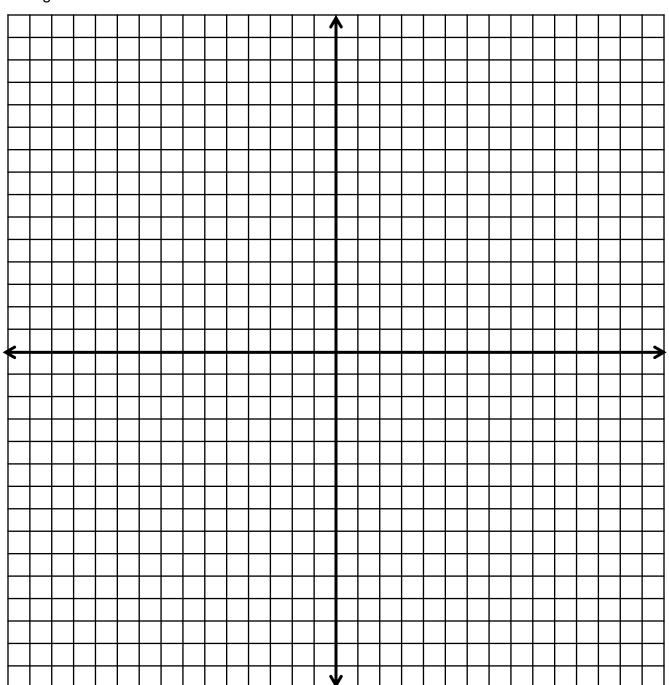




Name:	Date:	Group:
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MATH CONNECTIONS

Earth contains distinct layers: the inner core, outer core, mantle, crust, and lithosphere. When constructing a model of Earth's layers, each layer's chemical composition, state of matter, and thickness should be considered. Use the steps on Page 2 to complete a replica of Earth's layers in the grid below.





MATH CONNECTIONS

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rollow the St	eps below to	construct a	moder	oi Eaith Si	iayers iii i	ine gna or	i page i.

- ☐ Plot the coordinates (-5,-9) and (5,-9). Connect them with a line.
- \square Plot the coordinates (-8¹/₃, 1) and (8¹/₃,1). Connect them with a line.
- \square Plot the coordinates (-12³/₄, 14³/₄) and (12³/₄, 14³/₄). Connect them with a line.
- ☐ Plot the coordinates (-13,15) and (13,15). Connect them with a line.
- \square Plot the coordinates (-3,-15) and (3,-15).
- ☐ Connect the coordinates (-3,-15) and (-13,15) with a line.
- ☐ Connect the coordinates (3,-15) and (13,15) with a line.
- ☐ Label each section of your model from top to bottom: Crust, Mantle, Outer Core, Inner Core.
- ☐ Color each section a different color.

The lithosphere is the layer of Earth comprising Earth's Crust and Upper Mantle.

- \Box Draw the line y = 14½ on the grid.
- \Box Between y = 14½ and y = 15, add slanted stripes to show the Lithosphere.

Each square on the grid represents about 212 kilometers. Calculate the estimated thickness for each of Earth's layers and write it in the corresponding empty space below.

Layer	Chemical Composition	State of Matter	Average Thickness (km)	
Lithosphere	Crust and upper Mantle	Solid and rigid		
Crust	Lighter Elements: Al, Ca, Mg, K, and Na	Solid		
Mantle	Silicates (Si, O), Magnesium, and iron	Varies from brittle, solid to molten state of magma		
Outer core	Iron and nickel	Liquid		
Inner core	Iron and nickel	Solid		

