Name	Date	Period	56

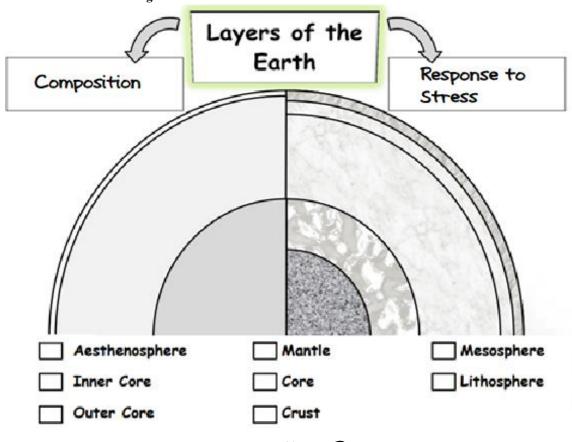
# EARTH'S INTERIOR

Directions: Each section begins with specific website links for you to follow in order to find the information you need to answer each question.

#### Task 1 - Different Layers

Go to dixiemiddlscience.weebly.com – 2<sup>nd</sup> quarter – find today's date and click on the black button titled TASK 1

1. Use the information from the website above to complete the diagram below. Assign a color for each layer to identify where it is on the diagram.



## The Crust

### Task 2 - Types of Crust

Go to dixiemiddlscience.weebly.com - 2<sup>nd</sup> quarter - find today's date and click on the black button titled TASK 2 WEBSITE 1

2. Use the information from the link above to complete the data table.

	Thickness (km)	Composition (rock or metals))	Most common substance in layer
Continental Crust			
Oceanic Crust			

3.	Fill in the blank: Continental crust is	_ dense than oceanic crust
4.	If Earth were a piece of fruit, what part would the crust be?	
Go to d	ixiemiddlscience.weebly.com –2nd quarter – find today's date and cl	ick on the black button titled TASK 2 WEBSITE 2
	ould see a USGS graph that shows the thickness of the Earth's cru ng questions:	st. Carefully study the graph to answer the
5. Find	the kilometer (km) scale on the right side of the graph; what color	shows crust that is 30 km thick?
6. On w	hat two continents do you find crust that is thicker than 60 km?	
	ch has thicker crust, oceanic crust or continental crust? Use eviden te sentences.	ce from the graph to explain your answer in
Task	3 - The Lithosphere	
8. Use i	nformation from the link below to complete the chart.	

	Thickness km)	Compositional Layers that make lithosphere	What is the lithosphere divided into?
Lithosphere			

 $Go\ to\ dixiemiddls cience. weebly. com-2^{nd}\ quarter-find\ today's\ date\ and\ click\ on\ the\ black\ button\ titled\ TASK\ 3$ 

9. The lithosphere floats on top of what layer? Explain why.

#### Layers of the Mantle

The mantle is divided into the upper mantle and lower mantle. Additionally, the upper mantle is divided into 2 parts: a thin portion of the lithosphere and the asthenosphere.

#### Task 4 - Asthenosphere

Go to dixiemiddlscience.weebly.com – 2<sup>nd</sup> quarter – find today's date and click on the black button titled TASK 4

14. At what depth range below the Earth's surface is the asthenosphere located?

## Task 6 - Layers of the Core

Go to dixiemiddlscience.weebly.com  $-2^{nd}$  quarter – find today's date and click on the black button titled TASK 6 18. Use information from the link above to complete the chart and questions.

	Thickness km)	Composition	Temperature Range (°C))	Liquid or Solid State?
Outer Core				
Inner Core				

19. Which layer creates the earth's mag	gnetic field? Explain how it cr	eates the magnetic field.		
20. Why is the inner core in a solid star	te rather than a liquid state giv	en the extremely high temperatures?		
Task 7 - Video				
		nd click on the black button titled TASK 7  to learn about the Earth's interior.		
22. What characteristic of seismic way	es did scientists use to determ	ine the differences between the layers of the Earth?		
speed?	·	that cause seismic waves to change direction and		
a b.		c		
	Review Ques	tions		
25. It is incorrect to say that the crust is	s broken up into tectonic plate	s. Explain why this is false.		
26. What is the deepest, hottest layer?				
27. Which layer is soft and malleable (	bendable)?			
28. Which layer is completely in a liqu	id state?			
29. List the 4 layers that are in a compl	etely solid (rigid) state			
30. In general, as depth increases, how	does temperature and pressure	e change inside the Earth?		
31. If you could travel the following di	5,000 km			
2,000 km 6,000 km				