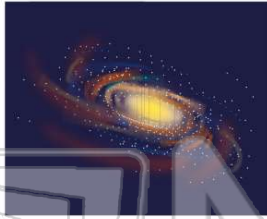




Name _____ Class _____ Date _____

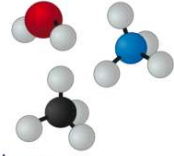
1 Geologists believe the earth formed by the accretion of **smaller pieces of rock** material called _____.

- A solar dust
- B planetesimals
- C lunar fragments
- D moons



2 There are a number of **theories** about **earth's earliest atmosphere**. Some scientists believe that earth's earliest atmosphere most probably included _____.

- A oxygen, methane, and water
- B methane, ammonia, and oxygen
- C water, ammonia, and methane
- D oxygen and water vapor



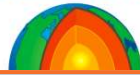
3 Approximately 3.9 billion years ago, oxygen first began to accumulate in earth's atmosphere. **What was the most likely source of this early oxygen?**

- A volcanic gases
- B photosynthesis by simple organisms like algae



4 When the earth was large enough, it is believed to have separated into layers with the densest layer in the center (the **core**), the next dense layer in the middle (the **mantle**), and the least dense layer at the surface (the **crust**). **What force caused earth's elements and compounds to separate into layers?**

- A gravity
- B impacts from planetesimals



5



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7

- C massive volcanic eruptions
- D the rise of mammals

- A Cenozoic
- B Mesozoic
- C Paleozoic
- D Phanerozoic

Precambrian	Archaean / Proterozoic	Paleozoic	Devonian
			Silurian
			Ordovician
			Cambrian
			543
			Late
			Middle
			Early
			Late
			Middle
	Early		
	3400		

9

There are two separate periods that are together referred to as the **Carboniferous**. They are the Mississippian and the Pennsylvanian. These periods are marked by massive beds of coal that were formed from decaying swamp plants. **Carboniferous Periods are within which eon or era?**

- A Proterozoic
- B Paleozoic
- C Mesozoic
- D Cenozoic

Phanerozoic	EON	ERA	PERIOD	Ma		
				Cenozoic	Quaternary	0.01
					Tertiary	65.0
				Mesozoic	Cretaceous	
					Jurassic	
					Triassic	
				Paleozoic	Permian	248
					Pennsylvanian	
					Mississippian	
					Devonian	
Silurian						
Ordovician						
Cambrian	543					
Precambrian	Archaean / Proterozoic	Late				
		Middle				
		Early				
		Late				
		Middle				
Early	3400					

10 According to scientists, the first organisms that lived on the land, at least partially, appeared in the Paleozoic Era.

Which organisms were probably the first to live on land?

- A mammals
- B reptiles
- C dinosaurs
- D amphibians





ANSWER KEY

Geologists believe the earth formed by the accretion of **smaller pieces of rock** material called _____.

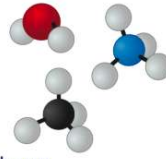
- A solar dust
- B planetesimals
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(b)

There are a number of **theories** about **earth's earliest atmosphere**. Some scientists believe that earth's earliest atmosphere most probably included _____.

- A oxygen, methane, and water
- B methane, ammonia, and oxygen
- C water, ammonia, and methane
- D oxygen and water vapor



(c)

Approximately 3.9 billion years ago, oxygen first began to accumulate in earth's atmosphere. **What was the most likely source of this early oxygen?**

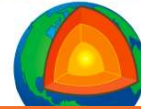
- A volcanic gases
- B photosynthesis by simple organisms like algae
- C solar wind
- D comets and asteroids that



(b)

When the earth was large enough, it is believed to have separated into layers with the densest layer in the center (the **core**), the next dense layer in the middle (the **mantle**), and the least dense layer at the surface (the **crust**). **What force caused earth's elements and compounds to separate into layers?**

- A gravity
- B impacts from planetesimals
- C heat from the decay of radioactive elements



(a)

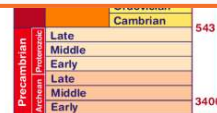


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the rise of mammals

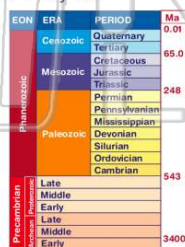
- A Cenozoic
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- C Paleozoic
- D Phanerozoic



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Carboniferous Periods are within which eon or era?

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- C Mesozoic
- D Cenozoic



(b)

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- B reptiles
- C dinosaurs
- D amphibians



(d)