

Birth of The Earth Video Questions

18 points possible. Students must get 15 correct for a perfect score.

1. As soon as the Earth melted, layers began to form. Why did the Earth's materials separate into different layers? (**dense materials sank; less dense materials floated**)
2. Scientists think that the early Earth was completely molten. According to the video, what caused the Earth to heat up to the point that it melted completely? (**radioactive elements**)
3. After the Earth melted, what caused the outside of the Earth to form a solid crust? (**space is cold – it cooled the Earth's surface**)
4. What method did scientists use to figure out the age of the earth? (**radioactive dating**)
5. Scientists used rock samples to find the age of the earth. Where did they get those samples? (**meteorites**)
6. Based on the most accurate measurements, how old is the Earth? (**4.5by 4.567by years old**)
7. How do scientists think the moon was created? (**a collision between another planet and the Earth**)
8. There is not as much iron in the moon as there is in the Earth. This is a clue suggesting that the moon formed from material that came from _____. (**material from the Earth's crust and mantle**)
9. How old are the oldest rocks that have been found on the Earth? (**about 4.3by**)

