

## Birth of The Earth Video Questions

1. 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**)
2. 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**)
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**)

