

Formation of the Earth

POP QUIZ

1. What was the Solar Nebula?

- A) A giant volcano on early Earth
- B) A cloud of gas and dust in space
- C) A planet that exploded
- D) The first ocean

2. What formed at the center of the spinning disk?

- A) The Earth
- B) The Moon
- C) The Sun
- D) Planetesimals

3. What does “accretion” mean?

- A) When water formed on Earth
- B) When dust and small pieces stuck together
- C) When the Moon hit the Earth
- D) When life first appeared

4. What are planetesimals?

- A) Small rocky bodies that can join to make planets
- B) Large stars
- C) Layers inside the Earth
- D) Small oceans

5. How did the Moon form?

- A) Earth split into two parts
- B) A Mars-sized object hit Earth
- C) Dust collected near Earth
- D) It formed from volcanoes

6. During differentiation, what sank to Earth's center?

- A) Water
- B) Heavy metals
- C) Light rocks
- D) Dust

7. What happened after many impacts (late bombardment)?

- A) Earth melted completely
- B) The crust cooled and became stable
- C) Life started instantly
- D) The Sun exploded

8. Where did Earth's early atmosphere and oceans come from?

- A) Only from comets
- B) From gases released by volcanoes and icy bodies
- C) From Earth's core
- D) From the Moon

9. When did simple life appear?

- A) Immediately after the Earth cooled
- B) After hundreds of millions of years
- C) Before the Moon formed
- D) At the same time as the Sun

10. Which step happened first?

- A) The giant impact
- B) Differentiation
- C) Solar nebula collapse
- D) Atmosphere and oceans