Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

How the Earth was made: Birth of the Earth Worksheet

1. The search for the oldest rocks on Earth brings investigators to the harsh desert landscape of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. The particles immediately began to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, forming little clumps all held together by tiny static electric charges.
3. Soon, the young planet had so much \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, that it began to attract bigger and bigger objects.
4. It only took about \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for the Earth to grow to almost its present size.
5. Below the surface, Earth is separated into distinct layers; a thin crust, then a massive dense layer of rock called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and at the center and iron and nickel core.
6. The Earth began to form when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the solar dust cloud began to stick together.
7. The meteorite was a staggering \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years old.
8. They were astonished to discover the moon rocks contained much less \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than they expected.
9. The Earth was formed just over \_\_\_\_\_\_\_\_\_\_\_\_\_\_ billion years ago.
10. The Earth survived a massive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with another planet.
11. They prove that the Amphibolite’s were made at least \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the crust of the Earth.
12. Magnetite in banded iron formations only forms \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, so these rocks are further evidence that there were oceans on earth more than 4 billion years ago.
13. The water is at least as old as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
14. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ brought the water to Earth.
15. Finding the origin of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has challenged scientist for years.
16. The meteorite contained tiny amounts of chemicals called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
17. 3.5 billion years ago there was no \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on Earth.
18. One of the few places on Earth where they can be found is in another part of the Northern \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
19. “If I look very closely, all of the community is producing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.”
20. A new canvas on which billions of years of geological processes could mold the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ we inhabit today.