

1. Zircon	A very stable mineral that commonly occurs in small amounts in granite.	15. Red beds	Sedimentary rock deposits that contain oxidized iron, providing evidence that free oxygen existed in the atmosphere during the Proterozoic
2. Gravitational Contraction	The result of meteor bombardment and the subsequent accumulation of meteorite material on Earth causing the size of the Earth to increase.	16. Primordial Soup	"soup" formed from the Miller Urey experiment consisting of organic molecules such as formaldehyde and four different amino acids
3. Granite	The common crustal rock composed mainly of feldspar, quartz, and mica, which are minerals with low densities.	17. Amino Acids	Building blocks of proteins that were likely abundant on Earth during the Archean.
4. Differentiation	The process by which a planet becomes internally zoned. Dense elements sink to the middle while the less dense elements rise to the crust	18. Enzymes	Needed by RNA and DNA for reproduction in modern organisms
5. Precambrian Shield	Continental core of Archean and Proterozoic rock that may be exposed at the surface or buried by sedimentary rocks.	19. Hydrothermal Vents	Hot water, deep sea vent that has the energy and nutrients needed for the beginnings of life
6. Canadian Shield	Name given to the Precambrian shield in North America because so much of it is exposed in Canada	20. Prokaryote	An organism composed of a single cell, which does not contain a nucleus and is the simplest kind of cell.
7. Microcontinents	Small pieces of continental crust that collided with one another throughout the Proterozoic, forming the cores of the continents	21. Eukaryote	An organism composed of cells that contain nuclei
8. Laurentia	Ancient continent formed during the Proterozoic that is the core of modern-day North America.	22. Ediacaran fauna	Fossils of multicellular, varied organisms lacking a mouth, anus, and gut that were widely distributed in the shallow oceans of the late Proterozoic
9. Grenville Orogeny	The final phase of Proterozoic growth of Laurentia (mountain building event)	23. Snow Ball Earth	Glaciation was so widespread 850 - 550 million years ago that scientists compare life on Earth to living on a giant snow ball
10. Rodinia	The first supercontinent to form on Earth's surface	24. Miller Urey Experiment	Combined methane + ammonia + hydrogen + sparks which created simple amino acids (the building blocks of life)
11. Outgassing	The release of a gas that was dissolved, trapped, frozen or absorbed in some material. IE. volcanic activity.	25. Oceanic Crust	the relatively thin but dense part of the earth's crust that lies under the ocean basins
12. Cyanobacteria	Microscopic, photosynthetic prokaryotes that formed stromatolites and changed early Earth's atmosphere by generating oxygen.	26. Continental Crust	Thicker crust, made of mostly Granite and has a lower density (is much lighter) than oceanic crust
13. Stromatolites	Large mats and mounds composed of billions of photosynthesizing cyanobacteria that dominated the Proterozoic's shallow oceans	27. Craton	The ancient core of a continent which is tectonically stable
14. Banded Iron formations	Unique, shallow marine deposits made up of alternating bands of chert and iron oxides that formed due to locally high oxygen levels produced by stromatolites	28. Formation of the Earth	Condensed out of the "Solar Nebula" roughly 4.6 billion years ago through gravitational attraction