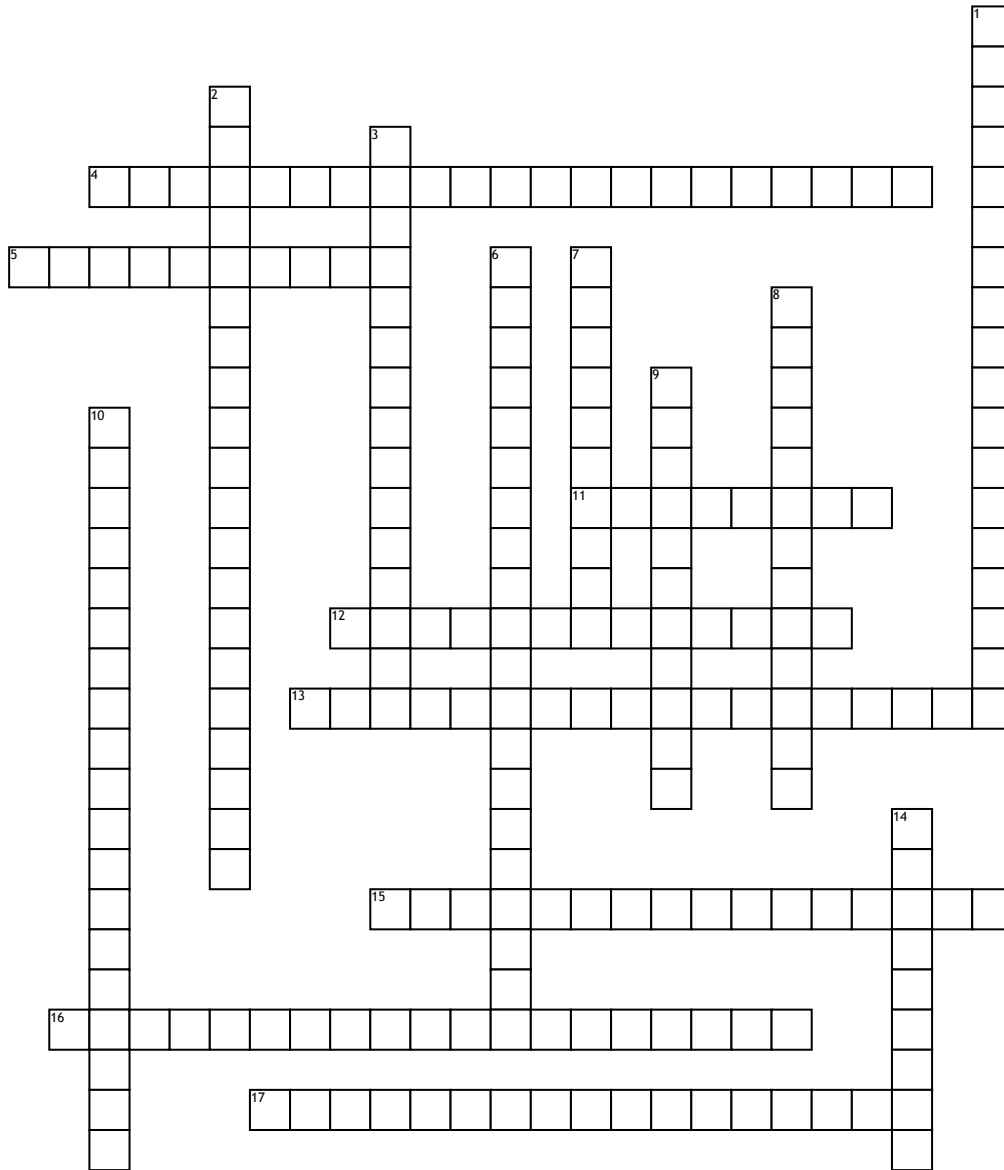


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Origins of life



## Across

4. belief that living things arose out of dead matter
5. collection of viewpoints that suggest that life arrived on earth from outer space
11. hypothesis stating that organic molecules were the first to accumulate on earth, and amongst these molecules were adenine, guanine, uracil, thymine, cytosine, ribose, and deoxyribose
12. One of the first major experiments that disproved spontaneous generation was conducted by
13. simple life started by utilizing a chemically complex environment

15. hypothesis that states that iron-sulfide, a mineral catalyst, may encourage a series of chemical reactions when nearby deep-sea hydrothermal vents

16. water, methane, ammonia, and hydrogen

17. create chemical gradients that provide energy and may have synthesized organic molecules and polymers

## Down

1. early self-sustained systems used whatever simple molecules were obtainable
2. scientist that proposed the "Iron-Sulphur World Hypothesis"

3. hypothesis stating that the initial quality of life forms was a network of self-sustaining chemical reactions

6. most recent common ancestor to life

7. hypothesis stating that clay may have catalyzed the formation of RNA

8. scientists that conducted "primordial soup" experiment

9. belief that the origin of life was created by a "higher power"

10. a campaign that claimed that educators should teach creationist views in conjunction with scientific theories

14. scientist that proposed the idea that RNA may have been the initial life molecule