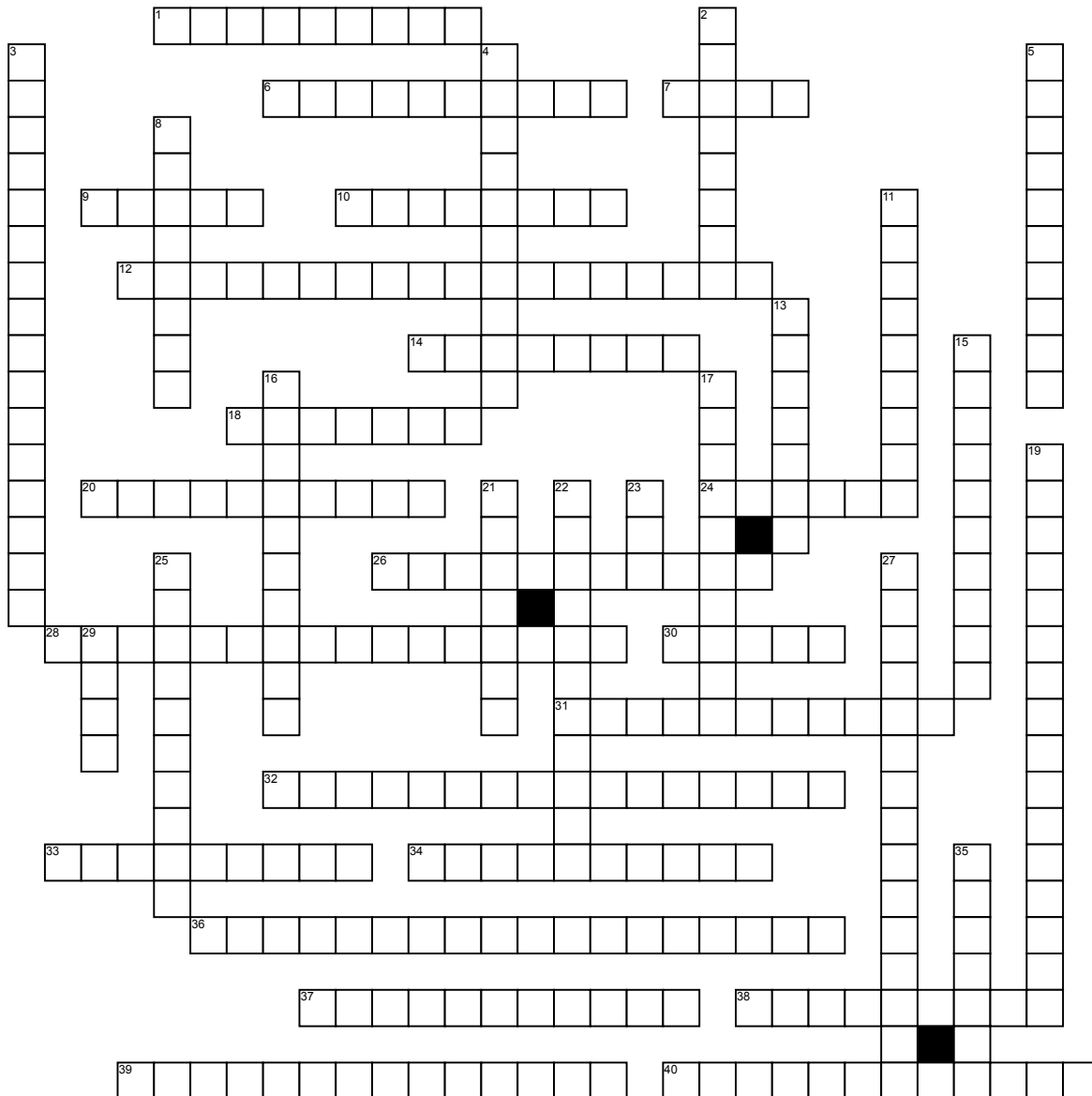


# An introduction to life on earth



## Across

1. atoms combined in specific ways to form assemblies
6. a supposition based on previous observation that is offered as an explanation for observed phenomena and is used as the basis for further observation or experiment
7. the smallest particle of an element that retains the properties of that element
9. a structure usually composed of several tissue types that form a functional unit
10. define the problem or issue you wish to resolve
12. the process of creating a generalization, coupled with an absence of contradicting evidence
14. a factor in a scientific experiment that is deliberately altered in order to test a hypothesis
18. the portion of an experiment in which all possible variables are held constant
20. the decision about the validity of a hypothesis on the basis of experimental evidence
24. the capacity to do work
26. needed to stay alive and function effectively.
28. a general explanation of natural phenomenon developed through extensive and reproducible observations, more general and reliable than hypothesis
30. units of heredity that provide the information needed to control the life of the cell

31. structures, physiology processes, and behaviors that aid in the survival and reproduction of that particular environment
  32. observation, question, hypothesis, prediction, experiment, conclusion
  33. the material contained within the plasma membrane
  34. small structures that are specialized to carry out specific functions
  36. the process of generating hypotheses about how specific experiments or observations will turn out
  37. 2 or more organs working together in the execution of a specific bodily functions
  38. states modern organisms descended, with modification, from preexisting life forms
  39. the outer membrane of a cell
  40. the diversity of species and the interaction that sustain them
- Down**
2. a change in the base sequence of DNA in a gene
  3. all events can be traced to natural causes that are potentially within our ability to comprehend
  4. states that the cell is the basis unit of life
  5. self feeder, normally a photosynthetic organism, a producer
  8. an individual living thing
  11. 2 or more populations of different species living and interacting in the same area

13. a group of similar cells that perform a specific function
15. contains an organism's DNA
16. a group of organisms of the same species within an area
17. the testing of a hypothesis by carefully controlled observations
19. process in which organisms with specific traits that help them cope with the rigors of their environment reproduce more successfully than others who lack those traits
21. makes up all matter of Earth and is unique, it is also a substance which cannot be broken down.
22. the noting of scientific phenomena
23. molecule that contain hereditary info of all known forms of life
25. a guess based on facts or evidence
27. complex molecules that contain both carbon and hydrogen which makes up living things
29. smallest unit of life
35. organisms of the same type that are capable of breeding with one another