

Integrated Science 7
I Can Statements
Term 1

Use Science Process and Thinking Skills

- 1. I can explain how science is useful in my everyday life.
- 2. I can plan and conduct an experiment using standard scientific methods and report my findings in a lab write-up. [ILO 1.e.1]
- 3. I can differentiate between independent, dependent, and controlled variables. [ILO 1.e.2]
- 4. I can explain the difference between an observed fact and an inference. [ILO 1.f.1]

Accurately measure the characteristics of matter in different states.

- 5. I can measure the mass and volume of an object and calculate its density. [7.I.2.1]

Investigate the motion of particles.

- 6. I can model how particles of matter move in the different states of matter. [7.I.3.1]
- 7. I can predict how particles of matter move during osmosis and diffusion. [7.I.3.2]

Describe the structure of matter in terms of atoms and molecules.

- 8. I can discuss how ideas about the atom have changed from ancient times to current atomic theory as new information was discovered. [7.I.1.1]
- 9. I can assemble molecules using model atoms and bonds. [7.I.1.2]

Analyze how density affects Earth's structure.

- 10. I can compare and contrast the properties of the layers of the Earth and atmosphere. [7.II.2.1]

Examine the effects of density and particle size on the behavior of materials in mixtures.

- 11. I can predict how materials sort based on their density. [7.II.1.1]

Compare living, once living, and nonliving things.

- 12. I can distinguish the characteristics that separate a living organism from a non-living object. [7.V.1.1]

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Term 2

Classify organisms using an orderly pattern based upon structure.

13. I can use a taxonomic key or field guide to identify a living organism. [7.V.3.1]

Use and develop a simple classification system.

14. I can develop a classification system and explain why having a classification system is useful. [7.V.2.1]

Defend the importance of observation in scientific classification.

15. I can prepare a microscope slide and use a microscope to view very small organisms. [7.V.1.2]

Observe and describe cellular structures and functions.

16. I can explain the structure and function of basic cell organelles. [7.III.1.1]
17. I can compare and contrast the structure of plant cells and animal cells. [7.III.1.2]

Identify and describe the function and interdependence of various organs and tissues.

18. I can arrange cells, tissue, organs, and organisms by level of organization. [7.III.2.1]
19. I can describe the structure and function of major organs in each system of the body. [7.III.2.2]

Compare how sexual and asexual reproduction passes genetic information from parent to offspring.

20. I can assess the advantages and disadvantages of sexual and asexual reproduction. [7.IV.1.1]
21. I can explain how dominant and recessive traits are passed from parents to offspring. [7.IV.1.2]

Relate the adaptability of organisms in an environment to their inherited traits and structures.

22. I can differentiate between acquired traits and inherited traits. [7.IV.2.1]
23. I can analyze how organisms adapt to their environment through natural selection. [7.IV.2.2]
24. I can give examples of how humans have used artificial selection to modify domestic plants and animals. [7.IV.2.3]