

| STRAND | STANDARD | OBJECTIVES (What it looks like in the classroom) The learner will í | # OF DAYS NEEDED FOR MASTERY | DATES TAUGHT | DATE ASSESSED | ASSESSMENT TYPE (classroom, STAR, objective, subjective, project, etc.) | RESOURCES (Materials, web sites, auto-visual, print) | LEARNING ACTIVITIES |
|----------------------------|--|---|---------------------------------|----------------|--------------------------|---|--|---|
| | Scientific inquiry | Understand the 5 steps of the Scientific Method | 3 | Aug | 8/30 | objective | | Lab safety Metric system |
| 12.3.1d | Behavior of organisms | List and give an example of the 5 characteristics of living things | 3 | Aug | 8/30 | objective | | Poster/acronym |
| 12.3.3a 12.3.3c | Interdependence of organisms | Research and present a Biome (Food web, Energy pyramid, etc.) | 24 | Sept | 9/14 and 9/22 | Presentatio n and quiz 12.4.4 | | Pond lab (scopes) Bean lab (pop. growth) |
| 12.3.1a | Understanding of matter, energy, and organization | Use periodic table to create compounds (fats, carbs, proteins) | 10 | October | 10/20 | objective | | Diffusion lab pH lab Chemistry models |
| 12.3.1b | Understanding of the cell | Research and create a cell catalog (organelles) | 14 | Oct/Nov | 11/8 | Project and quiz | United Streaming | Cell lab w/microscopes |
| 12.3.1c | Understanding of the cell | Understand the steps of the cell cycle and mitosis | 8 | Nov | 11/21 | objective | Video quiz | Mitosis stages w/microsope |

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| 12.3.1c | Understanding of the cell | Explain the 2 steps of photosynthesis | 6 | Nov | 11/30 | objective | Video quiz | Atom model |
| 12.3.1c | Understanding of the cell | Explain the 4 steps of cellular respiration | 6 | Dec | 12/12 | objective | United Streaming | Calorie counter Fermentation lab Atom model |
| | Scientific inquiry | Demonstrate how to use a microscope | 10 | Aug- May | | classroom | | Pond lab Cell lab Mitosis lab Tissue lab |
| 12.3.2a 12.3.2d | Basis of heredity | Use punnett squares to demonstrate heredity | 7 | Jan | 1/16 | objective | | Bag activity Geno/Pheno lab |
| 12.3.2b | Basis of heredity | Create a model of DNA and label the major structures | 9 | Jan | 1/30 | Project and quiz | United Streaming | Protein Activity |
| 12.3.3c | Basis of heredity | Discuss causes for common genetic diseases | 7 | Feb | 2/7 | Objective 12.4.2 | | Library research |

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| 12.3.1d | Behavior of organisms | Compare bacteria and virus behavior | 9 | Feb | 2/21 | objective | United Streaming | Virus picture Bacteria slides |
| 12.3.4a 12.3.4b | Theory of biological evolution | Discuss Evolution and use classification keys for biological species | 8 | March | 3/7 | objective | 6 Kingdoms | Fish key Classify shoes |
| 12.3.1d | Behavior of organisms | Research and present invertebrate project | 15 | March | 3/28 | Present and quiz | United Streaming | Squid dissection |
| 12.3.1d | Understanding of matter, energy, and organization | Compare organ systems (dig, resp, nerve, circ,etc.) | 21 | April - May | 5/10 | objective | Video | Muscle wksht Bone wksht Reflexes |
| 12.3.4c 12.3.4d | Natural Selection | Discuss theory of Natural Selection | 5 | April | 4/4 | objective | United Streaming | Evolution Debate Darwin Facts |
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