

## STAAR ALTERNATE 2 INSTRUCTIONAL TERMS FOR SCIENCE

For all subject areas, TEA provides a list of specific instructional terms that students will need exposure to during classroom instruction because the terms may be used on the assessment. However, the lists do not reference all the content a student would be responsible for. Students must become familiar with these terms as they are developmentally able to comprehend the content. Students in higher grades need to also know the terms presented in earlier grades.

| Elementary Science  | Middle School Science  | Biology  |
|---|--|--|
| <p><b>Matter and Energy</b></p> <p>batteries, battery<br/>boil, boiling<br/>energy: electrical, light, mechanical, sound, thermal<br/>freeze, freezing<br/>gas, liquid, solid<br/>heat, heated, heating<br/>matter<br/>melt, melted, melting<br/>physical characteristics<br/>physical properties<br/>shadow<br/>shape<br/>state of matter<br/>structure<br/>temperature<br/>texture (rough/smooth)<br/>vibrate, vibrating, vibration<br/>weigh, weight (heavy/light)<br/>classify, classified<br/>measure, measured<br/>produce(s), producing<br/>record, recorded</p> <hr/> <p><b>Force, Motion, and Energy</b></p> <p>amount of force<br/>direction<br/>float, sink<br/>force, movement: push/pull, pushing/pulling, direction, speed<br/>magnet, magnetic<br/>speed<br/>diagram<br/>graph, graphed<br/>table</p> <hr/> <p><b>Earth and Space</b></p> <p>above/below freezing<br/>body of water: freshwater, river<br/>clouds, cloudy, cumulus<br/>conserve, conservation<br/>earthquake</p> | <p><b>Matter and Energy</b></p> <p>chemical energy<br/>circuit (electric), complete, incomplete, conductor, switch<br/>compound<br/>function<br/>generate(s)<br/>insulator(s)<br/>magnetic poles<br/>mixture<br/>particles<br/>power source<br/>reflect(s), reflection<br/>reversed<br/>solution<br/>convert(s), converted</p> <hr/> <p><b>Force, Motion, and Energy</b></p> <p>appear, appearance<br/>friction<br/>gravity<br/>magnify<br/>function</p> <hr/> <p><b>Earth and Space</b></p> <p>atmosphere<br/>axis<br/>climate: cold, dry, hot, warm, wet<br/>day and night cycle<br/>drought<br/>Mercury (planet)<br/>pollution<br/>protect, protection<br/>rotate(s), rotation<br/>season(s): winter, spring, summer, fall<br/>solar, solar panels<br/>water cycle: collection, condensation, evaporation, precipitation<br/>weather chart, weather forecast<br/>wind, wind turbines</p> <hr/> <p><b>Organisms and Environments</b></p> <p>consumer, producer</p> | <p><b>Biological Structures, Functions, and Processes</b></p> <p>absorb, absorption<br/>autotroph, autotrophic<br/>bacteria<br/>body systems: circulatory, digestive, integumentary, nervous, respiratory, skeletal<br/>carbon dioxide<br/>cells (specialized)<br/>conserve energy<br/>heterotroph, heterotrophic<br/>human body: muscles, bones, organs<br/>microscope<br/>molecule(s)<br/>multicellular, unicellular<br/>organ(s), organ system<br/>oxygen<br/>photosynthesis<br/>process<br/>system of organized cells<br/>tissue(s): supportive, photosynthetic, protective, vascular<br/>transport</p> <hr/> <p><b>Mechanisms of Genetics</b></p> <p>advantage, disadvantage<br/>artificial selection<br/>inherit traits<br/>offspring<br/>variation(s)</p> <hr/> <p><b>Biological Evolution</b></p> <p>blend in (camouflage)<br/>compete, competition<br/>erosion<br/>evidence<br/>extinct, extinction<br/>fossil<br/>glacial movement<br/>instinct, instinctual<br/>landform: delta, canyon, sand dune<br/>learned behavior</p> |

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|---|---|---|
| <p><b><i>Earth and Space, cont.</i></b><br/>           Earth materials<br/>           fuel<br/>           inner planets, outer planets<br/>           man-made, natural<br/>           moon: crater, crescent, full<br/>           natural resources<br/>           non/renewable resources<br/>           orbit<br/>           reduce, reuse, recycle<br/>           resource<br/>           rocks, sand (dunes)<br/>           rotate<br/>           sky: day, night<br/>           soil, soil particles<br/>           solar system: stars, planets (Earth, Jupiter, Venus)<br/>           stars<br/>           sun, sunlight, sunny, sunrise, sunset<br/>           surface<br/>           telescope<br/>           water supply<br/>           weather: rain, rainy, snow, snowy,<br/>           wind, windy<br/>           winter</p> <hr/> <p><b>Organisms and Environments</b></p> <p>adapt, adaptation, adapted<br/>           adult, parent<br/>           baby, young<br/>           basic needs<br/>           depend, dependence<br/>           ecosystem (aquatic)<br/>           environmental/habitat<br/>           external structures<br/>           food chain, food web<br/>           life cycle<br/>           living, nonliving<br/>           migrate, migrating, migration<br/>           nutrients<br/>           organism(s)<br/>           resemble(s)<br/>           shelter<br/>           survive, survival</p> | <p><b><i>Organisms and Environments, cont.</i></b><br/>           energy (food)<br/>           population(s)<br/>           predator(s)<br/>           reproduce<br/>           roots, root systems</p> <hr/> <p><b>Scientific Tools and Processes</b></p> <p>combine(s), combined<br/>           convert(s), converted<br/>           data<br/>           observe, observation<br/>           pattern<br/>           predict, prediction</p> | <p><b><i>Biological Evolution, cont.</i></b><br/>           migrate, migration<br/>           molt, molting natural selection<br/>           sedimentary rock<br/>           volcanic eruption, lava</p> <hr/> <p><b>Interdependence within Environmental Systems</b></p> <p>abiotic factors<br/>           biotic factors<br/>           component<br/>           decay, decaying<br/>           ecosystem: desert, forest, gulf, woodland<br/>           healthy, unhealthy habits<br/>           interact, interaction<br/>           Levels of Organization: organism, population, community<br/>           life cycle: egg, nymph<br/>           spreadsheet<br/>           recycle nutrients<br/>           species<br/>           sustain, sustained<br/>           trunk (tree)<br/>           trophic levels</p> |