

STAAR PREP

8TH GRADE STAAR

REFERENCE SHEETS

STAAR CHEMISTRY Reference Sheet

ENERGY CONCEPT

Ground State Electron Configuration: $1s^2$

Atomic Number: 1

Symbol: H

PERIODIC TABLE

Number of Electron Shells: 1 Energy Levels

STAAR LIFE Reference Sheet

ECOLOGICAL SUCCESSION

Primary Succession: Bare Rock, Lichen, Mosses, Small Plants, Large Plants, Forest

Secondary Succession: Bare Soil, Small Plants, Large Plants, Forest

Disturbance: Fire, Flood, Storm

Stages: Pioneer Species, Intermediate Species, Climax Community

STAAR SPACE Reference Sheet

UNIVERSE CONCEPTS

Universe: All matter and energy in existence

Galaxy: A group of stars, gas, and dust held together by gravity

Star: A ball of gas that gives off light and heat

Planet: A body that orbits a star

Moon: A body that orbits a planet

Comet: A small body of ice and dust that orbits the sun

Meteoroid: A small body of rock or metal in space

Meteor: A meteoroid that enters the Earth's atmosphere

Meteorite: A meteor that has landed on the Earth's surface

3-D MODELS

Universe: A sphere with a radius of approximately 93 billion light years

Galaxy: A sphere with a radius of approximately 100,000 light years

Star: A sphere with a radius of approximately 100,000 miles

Planet: A sphere with a radius of approximately 4,000 miles

Moon: A sphere with a radius of approximately 1,100 miles

Comet: A sphere with a radius of approximately 10 miles

Meteoroid: A sphere with a radius of approximately 10 centimeters

Meteor: A sphere with a radius of approximately 10 centimeters

Meteorite: A sphere with a radius of approximately 10 centimeters

STAAR PHYSICS Reference Sheet

MOTION AND FORCE CONCEPTS

Position: A point in space

Distance: The length of the path between two points

Displacement: The change in position of an object

Speed: The rate at which an object moves

Velocity: The rate at which an object moves in a specific direction

Acceleration: The rate at which an object's velocity changes

Force: A push or pull on an object

Newton's First Law: An object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an unbalanced force

Newton's Second Law: The acceleration of an object is directly proportional to the net force acting on it and inversely proportional to its mass

Newton's Third Law: For every action, there is an equal and opposite reaction

ENERGY CONCEPTS

Energy: The ability to do work

Work: The transfer of energy from one object to another

Power: The rate at which work is done

Conservation of Energy: Energy cannot be created or destroyed, only transferred from one form to another

WAVES

Wave: A disturbance that travels through a medium

Transverse Wave: A wave in which the particles of the medium move perpendicular to the direction of the wave

Longitudinal Wave: A wave in which the particles of the medium move parallel to the direction of the wave

Electromagnetic Wave: A wave that does not require a medium to travel

Sound Wave: A wave that requires a medium to travel

Light Wave: A wave that does not require a medium to travel

Radio Wave: A type of electromagnetic wave

Visible Light: A type of electromagnetic wave

Infrared: A type of electromagnetic wave

Ultraviolet: A type of electromagnetic wave

X-ray: A type of electromagnetic wave

Gamma Ray: A type of electromagnetic wave

STAAR EARTH Reference Sheet

SCIENCE CONCEPTS

Earth: A planet in the solar system

Atmosphere: The layer of gases surrounding the Earth

Hydrosphere: The part of the Earth that is covered by water

Biosphere: The part of the Earth that is inhabited by living organisms

Geosphere: The part of the Earth that is made of rock and soil

Continents: Large landmasses on the Earth's surface

Oceans: Large bodies of salt water on the Earth's surface

Mountains: Large landforms that rise above the surrounding land

Valleys: Low areas between hills or mountains

Plateaus: Flat areas of high land

Islands: Small pieces of land surrounded by water

Peninsulas: Pieces of land that are almost completely surrounded by water

Isthmuses: Narrow strips of land that connect two larger landmasses

Straits: Narrow passages of water between two landmasses

Canals: Artificial waterways that connect two bodies of water

THE EARTH'S INTERIOR

Crust: The outermost layer of the Earth

Mantle: The layer of the Earth between the crust and the core

Core: The innermost layer of the Earth

Outer Core: The liquid layer of the core

Inner Core: The solid center of the Earth

Plate Tectonics: The theory that the Earth's crust is made of plates that move

Volcanoes: Openings in the Earth's crust that allow molten rock to flow out

Earthquakes: Sudden movements of the Earth's crust

Weathering: The process of breaking down rocks into smaller pieces

Erosion: The process of moving soil and rock from one place to another

Sedimentation: The process of depositing sediment

Compaction: The process of squeezing sediment together

Cementation: The process of binding sediment together

Metamorphism: The process of changing rock into a new form

Melting: The process of turning a solid into a liquid

Crystallization: The process of turning a liquid into a solid

Sublimation: The process of turning a solid into a gas

Deposition: The process of turning a gas into a solid

Fusion: The process of turning two light elements into a heavier element

Fission: The process of splitting a heavy element into two lighter elements

Radioactive Decay: The process of a radioactive element changing into a stable element

Half-life: The time it takes for half of a radioactive substance to decay

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Anthony S. Fauci



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