

Research or Science Project?

Name \_\_\_\_\_

\_\_\_ Grade Science; Period \_\_ Date: \_\_\_\_\_

Possible Topics to Research and Create a Science Project Around:

Energy, Heat and Temperature	Thermal/Chemical/Electrical Energy	Energy/Heat Transfer/Specific Heat
Conduction, Convection, Radiation	Radiant/Nuclear/Mechanical Energy	Absolute Zero/Temperature Scales
Energy, Light and Photosynthesis	Habitats/Populations/Communities	Law of Conservation of Energy
Electromagnetic Spectrum	Habitats/Biomes	Wind and Water Turbines/Energy
Horticulture/Horticulturist	Life on Mars or other Planets	Physical versus Chemical Change
Dendrochronology/Dendrochronologist	Elements/Compounds/Reactions	Density/Buoyancy/Buoyant Force
Solar Energy/Renewable Energy	Carbon Compounds/Food Nutrition	Blimps and Hot Air Balloons
Buoyancy and Density	Light Energy/Reflection/Refraction	Archimedes' Principle/Displacement
Oceanography/Oceanographer/Currents	Transparent/Translucent/Opaque	Solid/Liquid/Gas Vapor
Hot Water Rises and Cool Water Falls	Electromagnetic Spectrum/Rainbow	Visco-elastic Liquid/Colloidal Solid
Wavelengths/Crests/Troughs	Infrared/Visible/Ultraviolet Light	Physical versus Chemical Properties
Ocean Tides and Tidal Zones	Cells/Tissues/Organs/Transplants	Protons/Neutrons/Electrons/Quarks
Weather/Meteorology/Meteorologist	Stem Cells & Medicine	Quantum Mechanics/Orbitals
Climate/Climatology	Diffusion/Osmosis/Active Transport	Bioluminescence/Triboluminescence
Hot Air Rises and Cool Air Falls	Surface Area to Volume Ratios	Periodic Table/Periodicity/Patterns
Wind Energy/Renewable Energy	Cells/Cell Division/Mitosis/Meiosis	110+Atoms/Elements/Facts/Properties
Hurricane/Tornado	Photosynthesis/Cellular Respiration	Molecule/Compound/Solution/Mixture
Wildfires/Lightning/	Protozoa/Bacteria/Viruses/Microbes	Conduct/Convect/Radiate/Insulate
Sprites & Jets/Auroras	Communicable Diseases/Germs	Water Polarity versus Non-polar Oils
Clouds/Storms	Parasitic/Symbiotic/Commensal	Acid/Base/Neutral/pH/Litmus
Absorption versus Reflection	Traits/Hereditry/Inheritance	pH Balance/Acidosis/Alkalosis
Earth Rotation versus Revolution	Self & Cross Pollination	Acid Rain & Stone Structures
Earth Seasons	Sickle Cell Anemia/Cystic Fibrosis	Chemical Reaction/Reactant/Product
Geology/Geologist	Fraternal/Identical/Conjoined Twins	Bonds/Covalent/Ionic/Hydrogen
Geothermal Energy/Renewable Energy	DNA/RNA/mRNA/Chromosomes	Law of Conservation of Matter/Mass
Seismology/Seismologist	Mutation/Genetic Disorder/Genome	Exothermic versus Endothermic
Earthquake/Tsunami	Evolution/Natural Selection	Activation Energy/Chain Reaction
Moment Magnitude/Mercalli-Intensity	Adaptations/Camouflage/Survival	Addition/Decomposition Reaction
Weathering/Erosion	Hominids/Primates/Neanderthals	Hot and Cold Pack Chemistry
Vulcanology/Vulcanologist	Taxonomy/Classification of Life	Carbon Chemistry – Carbon Chains
Cartography/Cartographer	Circulatory System/Circulation	Food/Proteins/Lipid/Carbohydrates
Fossil Dating/Relative/Radioactive	Smoking/Emphysema/Black Lung	Photosynthesis/Cellular Respiration
Archeology/Archeologist	Respiratory System/Respiration	Nucleic Acids/DNA/RNA
Topography/Topographer	Integumentary System/Skin	Proteins/Enzymes/Amino Acids
Lithosphere/Mantle/Core	1 <sup>st</sup> – 2 <sup>nd</sup> – 3 <sup>rd</sup> Degree Burns	Vitamins/Mineral/Nutrition
Continental versus Oceanic Crust	Skin Grafts/Plastic Surgery	Low vs High Density Cholesterol
Primary & Secondary Seismic Waves	Skin Cancer/Carcinoma	Distance/Time/Speed/Velocity
Continental Drift/Pangaea/Tectonics	Endocrine System/Hormones	Physics of Roller-coasters
Sea-Floor Spreading/Mid-Ocean Ridge	Digestive System/Tract	Air Flow/Resistance/Bernoulli Effect
Hot Spots and Island Chains	Excretory System/Tract/Urinary	Forces/Gravity/Weight/Acceleration
Convergent/Divergent/Transform Plates	Diabetes Mellitus/Eating Disorders	Newton's First Law (Motion/Forces)
Igneous/Sedimentary/Metamorphic Rocks	Skeletal & Muscular Systems	Newton's Second Law (Motion/Forces)
Speleothems/Stalactites/Stalagmites	Simple versus Compound Machines	Newton's Third Law (Motion/Forces)
Floods/Droughts/Soil Porosity	1 <sup>st</sup> – 2 <sup>nd</sup> – 3 <sup>rd</sup> Class Levers	Collisions/Mechanics/Forensics
Mass Wasting/Slumps/Sink Holes	Nervous System/Nerves/Impulses	Physics of Skateboarding/Sports
Electrical/Chemical/Nuclear Energy	Senses/Sight/Hearing/Smell/Touch	Solar System/Planets/Astronomy
Fossil Fuels/Non-Renewable Energy	Vision/Light/Color/Rods & Cones	Asteroids/Comets/Meteors/Meteorites
Transportation/Hybrid/Bio-Fuel/Gasoline	Color Blindness/Astigmatism	Satellites/Moons/Sub-Planets
Reduce/Reuse/Recycle Resources	Convex versus Concave Lenses	Sun/Stars/Nebula/Nova/Supernova
Conservation/Stewardship	Real versus Virtual Images/Mirrors	Spectroscopy/Spectrum/Spectrograph
Ecosystems/Food Web-Chains/Biomes	Hearing/Sound/Pitch/Frequency/Ear	Galaxy/Universe/Black-Hole/Big Bang
Weather Instruments/NOAA	Microscope/Electron Scanning	Telescope/Big Bear Solar Observatory