

## Science 6—Weekly Subject List

Week	Subject
1	introduction to chemistry/applied chemistry (inventions)/atoms/chemical reactions/compounds/mixtures/elements
2	states (solid, liquid, gas)/temperature/changing states/molecules/air pressure/physical properties/chemical properties/substances/displacement
3	filtration/distillation/chromatography/centrifugation/electrolysis/chromatography
4	atoms/nucleus/protons/neutrons/electrons/substances/compounds/periodic table/elements/metals/metalloids/non-metals/periodic table
5	pure elements/compound elements/nucleus shells/bonding (ionic, covalent)/ ionic compounds/covalent compounds/crystals
6	nuclear reactions/radiation/history of atoms/reactions/by-products/endothemic/exothermic/isotopes
7	activation energy/reactivity/catalysts/inhibitors/equations/law of conservation of mass/displacement reaction/decomposition/reversible reactions/chemical bonds/formulas
8	oxidation/reduction/combustion/acid/base/corrosion/alkali/salts/pH scale/indicators/soap/matter/mass
9	plastics/carbon chemistry/DNA/metals/solutions/molecules/distillation
10	reactivity series/gases/non-metals/mass spectrometer/crystallization
11	substance identification/origins of elements/geology/rock cycle/atmosphere/greenhouse effect/living chemistry (medicines)
12	body chemistry/chemistry history timeline/physics/physicists/energy/space/applied physics (inventions)/origins of the universe/Big Bang/atoms/molecules/elements
13	electrons/neutrons/protons/quarks/gluons/speed and motion/mass/momentum/force/friction/chemical reactions/combustion
14	Newton's Laws/inertia/machines/gravity/air resistance/terminal velocity/centripetal force/centrifugal force/gases
15	center of gravity/pressure/density/volume/displacement/precipitate
16	energy/energy transfer/fossil fuels/global warming/alternative power sources (wind, water, solar, nuclear)/solids/liquids/gases/evaporation/condensation/temperature/expansion/contraction/thermometers/conduction/convection/radiation/insulation
17	waves/wavelength/oscillation/electromagnetic spectrum/light physics/rainbows/solar spectrum/reflection/light scattering/matter/Law of Definite Proportions
18	refraction/lenses/sound energy/frequency/sound waves/echoes/sonar/sound and light/electricity/currents/electrical solutions/electrolytes
19	batteries/circuits/currents/circuit diagram/magnets
20	magnetism/magnetic fields/electromagnetism/electromagnets/space/astrophysics/stars/sun/moon/eclipse/solar system/physics timeline/acids and bases
21	introduction to biology/living things (commonalities)/classification/vertebrates/invertebrates/plants/electrolytes/ structure of atoms
22	cells/organs/viruses/bacteria/protists/microbes/medicines/electroplating
23	human body/skeletal system/muscles/brain/nervous system/senses/digestive system/respiratory system/circulatory system
24	reproductive system/genes/animal biology/botany/photosynthesis/photosynthesis

## Science 6—Weekly Subject List (cont.)

<b>Week</b>	<b>Subject</b>
25	plant biology/ ecology/ habitat/environment/population/ecosystems/keystone species/food chain/carnivores/ herbivores/omnivores/ pollution/climate change/biology timeline
26	earth/maps/seasons/rocks/minerals/fossils/Earth's resources/Earth's energy
27	volcanoes/natural hot water/earthquakes/earthquake safety
28	tsunamis/carbohydrates/ atmosphere/air and ocean currents/natural cycles/climate change/world climates/ rainforests/analysis/tropical grasslands
29	monsoons/deserts/Mediterranean climates/temperate climates/polar regions/mountains/changing climates
30	weather/analysis/water and clouds/thunderstorms/windstorms/photochemistry/floods/droughts/cold/heat/ strange weather/forecasting
31	plant/ecosystems/population/farming/farming methods
32	soil/weathering/erosion/analysis/rivers/river erosion/ground water
33	glaciers/coasts/seas and oceans/maps/scientific method/experiments/hypothesis/formulas/chemical equations/ atoms/science terms/reference information/analysis
34	Gregor Mendel/pollination/genotype and phenotype/alleles/heterozygous vs. homozygous/dominant vs. recessive traits/Punnett squares/cells/mitosis/
35	DNA/chromosomes/genes/genomes/meiosis/
36	sex-linked traits/trait inheritance/probability/RNA/translation/mutations/DNA fingerprinting/gene therapy/ cloning/ethics