

Science G—Weekly Subject List

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

Science G—Weekly Subject List (cont.)

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

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