

## Science G—Weekly Subject List

Week	Subject
1	history of astronomy, our place in universe, scales, matter/forces/energy in the universe, exploring space, our solar system
2	Sun, Moon, Mercury, Venus, Earth's day and night, seasons, eclipses, tides
3	Earth, Mars, Jupiter, Saturn, Uranus, Neptune, asteroids, meteors, comets
4	star distance, brightness, types, clusters, nebulae, star birth, death, supernova, neutron star, exoplanet, black holes, Milky Way, Magellanic Clouds
5	types of galaxies, active galaxies, star maps, timeline of astronomy, current vs. previous models of solar system/universe
6	Greek beliefs of universe, Galileo tests gravity on tower of Pisa, creates thermoscope, geometric compass, the ideas of Copernicus, Tycho, and Kepler, Galileo creates telescope, discovers Jupiter's moons, observes sunspots
7	importance of observing and measuring, Galileo's Inquisition and fallout, Newton builds upon Galileo, Galileo uses pendulum to make clock
8	Earth's magnetism, aurora, tectonic plates, theories, plates boundaries, continental drift
9	volcanoes, how volcanoes erupt, types of volcanoes, how lava flows, volcanoes around the world
10	volcanic rocks, pyroclastic flows, calderas, hot spots, atolls, geysers
11	supervolcanoes, earthquakes, seismic waves, tsunamis, how landscapes form
12	mountains rise, mountain ranges, rift valleys, weathering, erosion
13	landslides, sand dunes, glaciers, icebergs
14	rivers, riverbends, waterfalls, floods
15	canyons, groundwater, caves
16	deltas and estuaries, how coastlines change, ocean waves, rock cycle
17	igneous rock, igneous intrusions, metamorphic rock, sedimentary rock
18	soil, minerals, mineral examples, crystals and their properties
19	glowing minerals, pigments, gemstones, diamonds, gemstone examples
20	general causes of weather, varied climate, how the Sun's energy impacts Earth, atmosphere
21	greenhouse gases, greenhouse effect, CO <sub>2</sub> levels, methane, evidence of global warming, composition of air, past climates, methane levels, melting glaciers
22	climate zones, topics, temperate, polar, tundra, local climates, hot, cold, wet, and dry climates
23	water cycle, ocean currents, El Niño, air temperature, currents, pressure, wind, jet streams, Coriolis effect, ocean currents, air pressure, wind, beauford scale, prevailing winds
24	weather fronts, tornadoes, hurricanes, thunderstorms
25	floods, droughts, monsoons, cloud formation, types of clouds, dust storms
26	rain, rainbows, hail, snow, dew, fog, mist
27	frost, studying weather, instruments, forecasting, lightning
28	evidence of past climates: fossils, rocks, trees, pollen, ice, natural climate change, fossil formation, fossil examples
29	gradual climate change, astronomically, earth wobble, aerosols, CO <sub>2</sub> and oceans, ice ages, glaciers, ice shelf, how living things live in climates, growing human population, CFCs
30	solutions: alternative energy, saving energy, recycling, what could happen to climate in the future, disagreements to climate change

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

31	Intro, 4 R's, waste, trash statistics, decomposition, closed-loop and linear life cycles, Great Pacific Garbage Patch, organic and inorganic
32	archaeologist and middens, epidemics, industrialization, consumerism, landfills, oil spills
33	disposing of hazardous materials, reduce, sustainability, reduce, composting
34	reuse, recycle, you can make a difference
35	intro to biomes, tundra, boreal forests, temperate forests, temperate grasslands, deserts
36	tropical rainforests, tropical grasslands, mountain life, arid scrublands, wetlands, ocean life, human impact