

Forces in Nature

TEKS Blueprint

NT	Newton's Tower (Ziplines)
SR	Sky R.A.D. (Rockets)
RG	Rock Garden (Millennium Forest Part 1)
MR	Make it Rain! (Millennium Forest Part 2)

TEKS	Student Expectation	NT	SR	RG	MR	Readiness Supporting	Verb(s)	Level of Complexity
3.7 B	Investigate rapid changes in Earth's surface such as volcanic eruptions, earthquakes, and landslides.					Supporting	Investigate	High (analyze)
4.7 A	Examine properties of soils, including color and texture, capacity to retain water, and ability to support the growth of plants.					Supporting	Examine	High (evaluate)
4.7 C	Identify and classify Earth's renewable resources, including air, plants, water, animals, and nonrenewable resources, including coal, oil, and natural gas, and the importance of conservation.					Supporting	Identify, Classify	Low (understand)
5.1 A	Demonstrate safe practices and the use of safety equipment as described in the Texas Safety Standards during classroom and outdoor investigations.					S. I. and R.	Demonstrate	Low (understand)
5.2 A	Describe, plan, and implement simple experimental investigations testing one variable.					S. I. and R.	Describe, Plan, Implement	High (create)
5.2 C	Collect information by detailed observations and accurate measuring.					S. I. and R.	Collect, Observe, Measuring	High (analyze)
5.2 D	Analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence.					S. I. and R.	Analyze, Interpret, Construct	High (create)
5.2 F	Communicate valid conclusions in [both] written [and verbal] form(s).					S. I. and R.	Communicate	High (create)
5.3 A	In all fields of science, analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, including examining all sides of scientific evidence of those scientific explanations, so as to encourage critical thinking by the student.					S. I. and R.	Analyze, Evaluate, Critique	High (evaluate)
5.4 A	Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, prisms, mirrors, pan balances, triple beam balances, spring scales, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, and notebooks; timing devices, including clocks and stopwatches, and materials to support observations of habitats or organisms such as terrariums and aquariums.					S. I. and R.	Collect, Record, Analyze	High (analyze)
5.6 A	Explore the uses of energy, including mechanical, light, thermal, electrical, and sound energy.					Readiness	Explore	Low (understand)
5.6 D	Design an experiment that tests the effect of force on an object.					Supporting	Design	High (create)
5.7 A	Explore the processes that lead to the formation of sedimentary rocks and fossil fuels.					Readiness	Explore	High (apply)
5.7 B	Recognize how landforms such as deltas, canyons, and sand dunes are the result of changes to Earth's surface by wind, water, and ice.					Readiness	Recognize	Low (remember)
5.7 C	Identify alternative energy resources such as wind, solar, hydroelectric, geothermal, and bio-fuels.					Readiness	Identify	High (analyze)
5.7 D	Identify fossils as evidence of past living organisms and the nature of the environments at the time using models.					Supporting	Identify	High (analyze)