



# 100 Timely Topics for Science Fair Projects

<b>Experiment: test a hypothesis with the scientific method, control variables and analyse data.</b>	<b>Innovation: develop a unique device, model or technique that has human / commercial value.</b>	<b>Study: collect &amp; analyse data to reveal a fact, situation or pattern; synthesize results.</b>
Does texting affect your reaction time?	Design a smart watch for senior citizens	Great Pacific Garbage Patch
Are hand sanitizers effective?	Design a cell phone for younger children	Organic versus non-organic
Does practicing mindfulness reduce stress levels?	Design an app for cyber safety for teens	Chemical disposal in high school science labs
Does music increase your concentration?	Structure to prevent flooding by sea level rising	Are men or women more intelligent?
Does temperature affect sex in salmon eggs?	Design a solution to oil spills on the highway	Sea level rising update
(PhET) How do greenhouse gases effect photon absorption?	Design a solution to oil spills in the ocean	Is terraforming on another planet possible?
Does salinity from highway salt affect plant growth?	Design a solution to a flooded basement	Is there life on other planets?
How does cone weight/shape affect rocket flight?	Organic waste solutions for offices / workplace	Brown is beautiful: why do we still have lawns
Does soap type change DNA extraction in kiwis?	How can you repurpose old tires? Old computers?	Costs and benefits of self-driving trucks
(PhET) How cloud cover affects temperature and evaporation on Earth?	Better program for recycling in Kamloops	Is "multiple intelligence" accurate?
What factors influence hand warmers temperature?	Solutions to make Christmas "greener"	Is intelligence nature or nurture?
Are all helmets created equally to protect brains?	Remove greenhouse gases from the atmosphere	Fracking and oil extraction in Northern BC
Does screen time influence sleep?	Design a better Food Guide	Wind turbines above the Connector
Is soil different than hydroponics for germination?	Design a vaping cessation program	Are pesticides bad? How prevalent are they?
What are the effects of probiotics on mice?	Solutions to an endangered / at risk species	Keto: the good, the bad and ugly



(Speed Clock App) Does battery brand matter?	Design a monitoring program for invasive species	Environmental impacts of hydroelectric dams
Do epsom salts reduce muscle pain?	Design a technique to get more female engineers	Are ladybugs a viable pest-management solution?
Does environment affect regeneration in planaria?	Design a solution to get more male nurses	Are pipelines better than trucks?
How does moisture affect decay rate	What is an alternative to commercial farming?	Forest fires: good or bad
Wind turbines: does number of blades matter	Design a safer "juice" to deliver nicotine	How will self-driving trucks impact mining jobs?
Turbines in hydroelectric: effect of surface area	Design a device to prevent opioid overdoses	Update on opioid overdoses in North America
Regeneration time in plants: sexual vs. asexual	Design a better fire extinguisher	Have humans evolved to be vegetarians?
(PhET) How does frequency alter MRI results ?	(PhET) Invent a nuclear waste disposal system	Are viruses alive?
Do earthworms prefer certain soil types?	Design safer ladders / scaffolding for construction	How can households reduce their water use?
How does environment affect diffusion rates?	How could you model a flu outbreak?	Would nuclear energy work in BC?
Factors that affect adhesive qualities in chia seeds	Use CRISPR to improve crop yields	What is intelligence and why does it matter?
How to prevent oxidation in fruit and veggies	Strategy in nursing homes to reduce depression	Is autism genetic?
How does tire width affect winter traction?	Design a phone app that prevents DUI's	Are cancer rates increasing in Canada?
Which ion or concentration is best at melting ice?	System to prevent birth defects upon fertilization	Are vapes healthier than cigarettes?
Is size or gender related to body temperature?	Design a chair to increase physical activity	How can grocery stores limit garbage production?
(PHET) How does friction affect skateboard risks?	Cross bioluminescence genes into ___	Why are there so many peanut allergies now?
(BridgeBasher App) what bridge design is best for earthquakes?	What is a solution to improve notification and evacuation during an emergency?	What is a solution to food waste in Canada?
Effect of sunlight on vitamin D in chicken eggs	Use CRISPR to cure breast cancer	What are the effects of screen time on teenagers?

**Cool Apps:** Coaster Physics, iCircuit, Circuit Playground, BridgeBasher, Simple Physics, Gravity App, Speed Clock, Building Parallel Circuits, Electrons, **Cool Simulations:** PhET **Cool Data Sets:** World Health Information <https://www.who.int/gho/en/> Biodiversity / Endangered Species [Canadian Species at Risk Public Registry](#) Climate Data <http://aqrt.nrs.gov.bc.ca/> or [BC Snow Survey](#) data