



Elementary Workshop Package

Virtual Ventures offers a wide range of workshops in Science, Technology, and Engineering. Many teachers use our workshops as a review of a topic, to supplement current class work, or as a cost-effective alternative to a field trip (with much less paperwork!).

WORKSHOP INFORMATION

- All workshops are in-person and can be booked Monday-Friday between 9:00am-4:00pm (contact us for after school program availability).
- Workshops are led by our facilitators and are intended for a class of 20-30 students.
- Workshops are between 1-3 hours in length (specified in package).
- All supplies necessary for the workshop will be brought to your classroom by Virtual Ventures including laptops upon request.
- All workshops are offered for **free**.

We have suggested grade levels and subjects applicable for each workshop, however, please feel free to email us to discuss if a different workshop may be suitable for your class.

DIGITAL LITERACY

WORKSHOP	DESCRIPTION	GRADES	TECHNOLOGY	ONTARIO CURRICULUM CONNECTION	LENGTH (HOURS)
Coding Safari	Join us in a creative coding adventure where young minds design and build their own mini games, while discovering the magic of coding concepts	JK-2	Scratch JR	Coding	1.5-2 hours
Sunlight to Nightlight	Spark curiosity in young innovators as they craft their own interactive light, illuminating the world of weather and climate through hands-on coding exploration	3-5	Micro:bit	Coding	1.5-2 hours
Brick Battle	Empower students to unleash their creativity and technical skills as they construct LEGO robots, integrate sensors, and delve into coding, fostering a strong understanding of robotics through this hands-on team project	6-8	LEGO Spike Core	Coding, Robotics	3 hours



MATTER AND ENERGY

WORKSHOP	DESCRIPTION	GRADES	TECHNOLOGY	ONTARIO CURRICULUM CONNECTION	LENGTH (HOURS)
Coding Crossroads	Delve into the fundamentals of electronics and coding by crafting a red light, green light game—a playful introduction for beginners to both realms	6-8	Mirco:bit, Experimental Box	Electrical Phenomena, Energy, and Devices	1.5-2 hours
Magical Matters	Unlock the secrets of matter where budding coders craft online games to explore the unique behaviors of liquids, gases, and solids, all while diving into the captivating world of science	1-3	Scratch	Properties of Liquids and Solids	1.5 hours



EARTH AND SPACE SYSTEMS

WORKSHOP	DESCRIPTION	GRADES	TECHNOLOGY	ONTARIO CURRICULUM CONNECTION	LENGTH (HOURS)
Mineral Marvels	Unlock the secrets of geology and venture into the depths of mineral formation, mastering 3D modeling and embarking on an immersive exploration of these minerals in Augmented Reality	3-5	TinkerCAD Codeblocks, Merge Cubes	Rocks, Minerals, Geological Processes	2 hours
Super Solar	Launch into the cosmos while young space enthusiasts craft 3D models of diverse planets in our solar system, igniting a passion for celestial exploration	4-6	TinkerCAD Codeblocks	Understanding Earth and Space Systems, Space	1.5-2 hours



STRUCTURES AND MECHANISMS

WORKSHOP	DESCRIPTION	GRADES	TECHNOLOGY	ONTARIO CURRICULUM CONNECTION	LENGTH (HOURS)
Brick Breeze	Embark on a hands-on journey into renewable energy, constructing wind turbines to demonstrate newfound knowledge of energy conversion and the role of renewable resources in a sustainable future	3-5	LEGO Spike Core	Strong and Stable Structures, Machines and Their Mechanisms	1.5 hours
Brick-Quake	Unleash your inner engineer by designing and constructing earthquake-resistant structures, gaining foundational insights into engineering principles	3-5	LEGO Spike Core	Strong and Stable Structures, Forces Acting on Structures	1.5 hours
Launch Craft	Explore the principles of kinematics and master 3D modeling and design followed by seeing your structures come to life in dynamic simulations to observe the thrilling results	5-8	TinkerCAD SimLab	Forces Acting on Structures, Flight	1.5 hours



LIFE SYSTEMS

WORKSHOP	DESCRIPTION	GRADES	TECHNOLOGY	ONTARIO CURRICULUM CONNECTION	LENGTH (HOURS)
Ozobees	Step into the captivating world of plant growth and pollination and learn about the intricate processes of nature with coding	JK-2	Ozobots	Growth and Change in Plants	1.5-2 hours
Virtual Ecosystems	Explore the intricate balance of ecosystems by creating a video game integrating characters and coding to uncover the dynamic interplay of nature	2-4	Scratch	Growth and Changes in Animals and Plants	1.5-2 hours
Habitats in 3D	Delve into the essentials of natural habitats, food chains, and ecosystem balance by creating vibrant habitats and communities online	3-5	TinkerCAD	Habitats and Communities	1.5-2 hours
Species Invaders	Design a captivating video game that illustrates the complex relationship between invasive species and their impact on the environment	3-6	Scratch	Habitats and Communities, Biodiversity	1.5-2 hours



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