

The North Dakota State Library would like to thank those who made these STEM kits possible.

This STEM initiative was made possible by the collaboration of the Air Force STEM Program and Grand Forks Air Force Base, School Liaison Office. The mission of the Air Force K-12 STEM program is to inspire and develop student interest in Department of Defense STEM education and careers. The Air Force provides numerous K-12 STEM outreach opportunities to K-12 students both on Air Force bases and in the local communities. For more information on AF STEM programs, visit www.afstem.org or Facebook at AirForceSTEM.

NASA@ My Library is a project of The National Center for Interactive Learning at the Space Science Institute, in partnership with the Chief Officers of State Library Agencies, American Library Association Public Programs Office, the Pacific Science Center, Cornerstones of Science, and Education Development Center.



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ND Department of Public Instruction
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STEM KITS



AVAILABLE FOR SCHOOL AND PUBLIC LIBRARIES THROUGH KITKEEPER

WHAT IS KITKEEPER?

KitKeeper is a way for libraries to reserve kits from the North Dakota State Library. The types of kits that are available include book club kits, programming kits, and display kits.

HOW DO I ACCESS KITKEEPER?

The KitKeeper reservation system can be accessed either from the Services for Libraries and Education tab of the State Library's website or at <http://bit.ly/1tgOGKP>.

HOW LONG CAN I KEEP A KIT?

All kits have a loan period of 8 weeks.

HOW MUCH DOES IT COST?

You are responsible for the cost of sending the kit back to the State Library. Shipping costs depend on which kit you reserve.

If you lose or damage a kit component, you will be charged accordingly.

HOW MANY STEM KITS CAN I CHECK OUT?

There is a limit of 3 STEM kits at a time without prior approval.

I'M A TEACHER. HOW DO I CHECK OUT A STEM KIT?

Reservations for schools must be made by the School Media Specialist.

AIRBLOCK

Airblock is a modular programmable starter robot that can be assembled as a drone, hovercraft, and other configurations. It can be controlled and block-coded via Bluetooth.

BE A NASA DETECTIVE (NASA@ My Library)

Become more comfortable using tools of science and making predictions based on your observations with the activities included in this kit.

CODE & GO ROBOT MOUSE

Introduce coding concepts through Colby, a programmable mouse. Kids can design their own mazes and then use analytical thinking, problem solving skills, and step-by-step programming to get Colby to his cheese.

CODEYBOT

Codeybot is a smart programmable robot. He's a wedge-shaped, expressive robot dance machine who shoots lasers and teaches you to code.



COZMO ROBOT

Cozmo is a miniscule, synthetically intelligent, programmable robot with personality, facial recognition, and an outside chance of becoming self-aware.

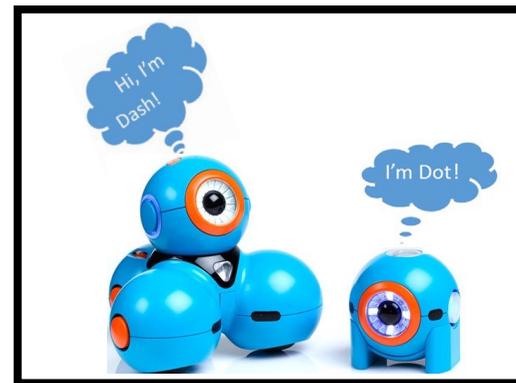
CUBELETS

Cubelets are pre-programmed robot blocks that are designed to sense, think, or act in a specific way.



DASH AND DOT WONDER PACK

Dash and Dot are round, colorful, fun, and friendly robots that teach coding concepts, scoot about, fire a catapult, play the xylophone, and wear bunny ears.



EVO OZOBOT

Ozobot Evo is a pocket-sized coding robot that builds understanding of coding concepts while also being creative, easy-to-learn, and fun for all levels.

FUEL CELL CAR

This hydrogen fuel cell car kit is designed to bring the latest research on clean, renewable energy sources out of the laboratories and into your hands.

GIANT POLYDRON

Children will have fun learning shapes, colors, and engineering principles with these rugged textured blocks that easily clip together and include Braille.



KEVA PLANKS

KEVA planks are perfectly cut, identical construction blocks that build a foundation for math, as well as art, science, and engineering. Create works of art or cleverly designed contraptions.

LITTLEBITS

These electronic components snap together with magnets, allowing anyone to build circuits in seconds.

MAKEBLOCK STARTER ROBOT

This kit has everything needed for those interested in learning robotics, electronics, programming, and engineering. It has everything to build a robot tank or a three-wheel robot car.

Q-BA-MAZE 2.0 MEGA STUNT SET

This unique system of colorful cubes that interlock to form marble runs creates thrilling maze sculptures while developing critical thinking skills, hand-eye coordination, and spatial reasoning.

ROBOT WARS CODING STRATEGY GAME

Robot Wars is a fun-filled coding game that introduces players to how a computer (or robot) executes code through sequential logic, using Java blended into English commands.

ROLI BLOCKS

These modular tactile electronic musical instruments facilitate learning and exploring both musical and computational concepts through human touch.

SPHERO

This programmable, app-enabled, sensor-equipped robotic ball is fun, durable, and supported by a robust coding curriculum utilizing block coding and JavaScript.



STARBLAST TABLETOP TELESCOPE KIT

Explore the universe with the Orion StarBlast telescope, a grab-and-go tabletop telescope that you can take practically anywhere.

SUN-EARTH-MOON CONNECTIONS (NASA@ My Library)

The Sun-Earth-Moon Connections Kit focuses on activities and experiences that better help patrons understand their place in space and how the Sun and Moon impact our planet.