



**MARKETPLACE FOR KIDS EDUCATION DAY**  
**Tuesday, May 16, 2023**  
**9:00 A.M. – 2:00 P.M.**  
**NORTH DAKOTA**  
**STATE COLLEGE OF SCIENCE**

Welcome!

On-Line Registration opens **Friday, March 31, 2023**. All registrations are “first come first served”. The registration must be complete before it can be processed.

Registration closes **Friday, April 28, 2023**. You will be notified when your registration has been received and processed.

**Education Day General Schedule:**

*(A personalized schedule for each student will be printed on their name badge)*

**\*Note that these times are subject to change**

9:00 am – 9:15 am	Pre-Opening Music	11:55 am – 12:20 pm	(Teal) Non-Project Students Lunch
9:15 am – 9:50 am	Opening Rally		(Maroon) Non-Project Students View Projects
9:45 am – 10:10 am	All Students Attend Classes	12:20 pm – 12:50 pm	(Teal) Non-Project Students View Projects
10:20 am – 10:45 am	All Students Attend Classes		(Maroon) Non-Project Students Lunch
10:55 am – 11:20 am	All Students Attend Classes	1:00 pm – 1:25 pm	All Students Attend Classes
11:30 am – 11:55 am	Project Students Eat Lunch	1:30 pm – 1:40 pm	Pre-Closing Rally Entertainment
11:30 am – 11:55 am	Non-Project Students Attend Classes	1:40 pm – 2:00 pm	Closing Rally
11:55 am – 12:50 pm	Project Students Present Projects at Hall of Great Ideas Showcase		

**Class List and Description**

**A. MainSt,ND**

Learn HOW, WHAT, WHEN, & WHY accounting and money are needed and what they do for us.

**B. “Breakout” from Traditional Roles!**

Feeding a growing world is one of the most vital future needs for all of us! In this session, students will have fun "breaking out" of lock boxes while learning about many career paths that are available to them and how these jobs relate to agriculture and feeding the world. Come and be challenged! Limit 24 Students.

**C. CareerViewXR**

Come and explore high-demand trade careers through immersive digital experiences that allow people to explore careers and communities virtually. Limit 8 Students.

**D. DIY Breadboard Circuits**

Come learn and explore circuit builds and the basics of electricity flow through circuits. In this session, students will become familiar with circuitry components like photoresistors, push buttons, batteries, LED’s, capacitors, and breadboards. Each build increases in complexity, and all components are reusable so that builds may be disassembled and recreated! Two 50-minute sessions and one 25- minute class. Limit 16 Students.

**E. Electrical Motors**

For this class we will use two 20-minute sessions to explain how electric motors work and each student will build a simple electric motor that they can take home with them. Each student will build a motor kit, and then run the motor using a battery to learn how electricity make a motor turn. Grades 5 and above. Limit 10 Students.

**Electrical Circuits**

A 20 Minute session where we will explain how an electric circuit works to turn on a light. Students will build a simple circuit they can take home. The project will have a battery, a switch, and a lamp they will connect with wire and be able to turn the light on and off. Grades 5 and above. Limit 10 Students.

**F. Money Does Grow on Trees!**

Wood, paper, heating, buildings, musical instruments, crafts, toys, nuts, fruits, and even mushrooms! “Wood” you believe it comes from a tree? Many jobs rely on forestry and selling “specialty forest products” could be an opportunity to start your own business to earn extra money. Limit 30 Students.

**G. Experiments with Electricity**

We will be using snap circuits and teaching kids about conductive materials and insulators. Mechanical energy and electrical energy.

### **H. How Can Workplace Hazards Be Controlled?**

We will look at safety hazards in the workplace and learn about different ways to make workplaces safer. Limit 24 Students.

### **I. Introduction to Entrepreneurship**

Welcome to the world of problem solving and profits. In a fast 25 minutes you will learn how to create new products like an entrepreneur. Students will participate in a hands-on, upcycle project to learn how to solve problems with creativity. Bonus, they can take home their own project! Limit 16 Students.

### **J. Discover Japan in North Dakota**

This class will provide students with an opportunity to experience unique Japanese culture. Limit 16 Students.

### **K. Create Your Own Electrical Circuit!**

We'll work with some cool components to create our own electrical circuits! You'll get to use a metallic pen (instead of wire!) to draw out your own electrical circuit to power on a light, fan, or other device. Limit 24 Students.

### **L. Lessons About Your Money**

The more you know about how to make money, how to save money, and how to spend money, the less likely it is that you will have problems as an adult. Do you know people who never seem to have enough money? If you don't want to live that way, listen up. We have some good information to share with you today. Students will get the opportunity to look at and learn about foreign currency.

### **M. Manufacture a Window with Marvin**

Have you ever wondered how manufacturing works? Join Marvin as we discuss how we go about making as many quality windows as we can in a day for people's homes. There are lots of jobs that make this possible, from engineers to production workers, everyone has a role to play.

### **N. Intro to Hydroponics**

Discuss traditional growing methods versus Hydroponics. Clones will be ready in the cloner and students will plant their own tomato plant.

### **O. Operation LifeSaver**

Railroad Safety, trespass prevention, and how to report emergencies that occur while on or near railroad property.

### **P. Digging Dinosaurs**

Brief introduction to Paleontology and Geology.

### **Q. Electrical Keychains**

Make a keychain out of wire and connections. Limit 24 Students.

### **R. Power Plant Puzzle**

Students will pair up in a team building exercise that utilizes their mechanical skills. They assemble nuts, bolts, linkage, and PVC into a replica of an original puzzle. Limit 30 Students.

### **S. Super-Smart Smoothies**

How to handle food safely, how to use basic kitchen equipment. Make a healthy smoothie with a variety of ingredients. Sample your creation! Limit 16 Students.

### **T. Who Wants to be a Nurse?**

We will have a variety of activities for students to participate in reflex checks, ear checks, hearing tests, lung sounds, oxygen and breathing. Limit 16 Students.

### **U. Worldwide Animal Conservation**

Explore the world of conservation with Chahinkapa Zoo professionals. Meet live animal guests!

### **V. How Flexible Are You?**

Flexibility is one of the most overlooked areas of wellness. We will test your flexibility in different areas to see how flexible you are. Limit 24 Students.

### **W. Introduction to Robotics**

This hands-on experience will introduce the student to the world of robotics and how they are used in various industries. Students will also have the opportunity to operate an industrial robot to pick up objects in their workspace. Limit 16 Students.

### **X. Sensory Exploration 101**

Our senses...sight, smell, taste, touch, and hearing connect our minds with the world around us. There are many situations throughout the day to provide opportunities for stimulation. You'll engage in fun, structured, hands-on activities that stimulate both sensory and motor skill development. Come and excite your senses! Limit 16 Students.

### **Y. Oval Track 101**

Learn what it takes to create a successful race team, from the shop to the winner's circle and everything in between. Also, get the chance to see a Dirt Track Sport Modified up close and personal. Limit 24 Students.

### **Z. Do You Have "Treasure" Hiding In Your Trash?**

Let's sort through some "trash" and see if you can pull out all of the recyclable materials! This is a fun and engaging session where students will become informed on how they can help the environment by recycling. Participants will learn about recycling, composting, and ways to reuse items.

**AA. Ride and Drive**

Participants will have an opportunity to drive a tractor and/or run an excavator. Limit 16 Students.

**BB. Concrete 101**

Students will learn basics of making concrete and will perform a hands-on activity to test concrete slump. They will have the opportunity to explore the ready-mix truck parked on site and participate in discussions about use of concrete and job opportunities. Limit 24 Students.

**CC. Who wants to be a Dental Assistant or Dental Hygienist**

This class will include a hands-on demo of several dental office procedures that dental assistants or dental hygienists do. What does an intra-oral camera look like and how is it used? What happens when you get x-rays in a dental office? What is infection control and how important is hand washing? How can I keep my teeth strong and healthy? Limit 16 Students.

**DD. Anatomy & Physiology**

Students will look at anatomy models, human skulls, a dissected sheep brain, and dissected cow eye. Limit 16 Students.

**EE. All About Water Rescue**

Students will look at anatomy models, human skulls, a dissected sheep brain, and dissected cow eye. Limit 16 Students.

**FF. Welcome to the World of Welding**

Welding in a virtual world. Limit 16 Students.

**GG. Designing Your World**

We will be talking through the steps of a design project and finish our discussion by dreaming up a park of your own! Limit 24 Students.

**HH. Team Building**

I will have the class building an apparatus utilizing their instructions and using their team. Limit 16 Students.