



**MARKETPLACE FOR KIDS EDUCATION DAY**  
**Tuesday, May 17, 2022**  
**9:00 A.M. – 2:00 P.M.**  
**NORTH DAKOTA**  
**STATE COLLEGE OF SCIENCE**

Welcome!

On-Line Registration opens **Wednesday, March 30, 2022**. All registrations are “first come first served”. The registration must be complete before it can be processed.

Registration closes **Friday, April 29, 2022**. 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. Main Street ND**

Learn HOW, WHAT, WHEN, & WHY to start your own 21st Century Business in today’s technological world. Learn to recognize your strengths AND weaknesses and how to attract and retain the people you need to compete and succeed. (Advisory Leadership Team Working On)

**B. Safety Super Heroes!**

Learn how Safety Professionals can be super heroes of the workplace. Learn how we eliminate hazards and save lives and money! Limit 24 Students.

**C. 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 8 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 8 Students.

**D. 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 money 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.

**E. Operation Lifesaver**

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

**F. Exploring Careers in Virtual Reality**

This class will provide students with an opportunity to become familiar with 360-degree and virtual reality media and to expose several careers through a series of virtual reality experiences. Available experiences will include careers in energy, healthcare, construction and more. Limit 8 Students.

**G. How Flexible are You?**

How flexible are you? Flexibility is one of the most overlooked components of fitness. Let’s see where you are at! Limit 16 Students.

### **H. Seed Engineering**

Most plants reproduce with seeds, which come in all shapes and sizes. Plants have developed ways to disperse these seeds, giving the new plant a better chance to find what it needs to grow. Students will be given a variety of art supplies to engineer their own "seed" to float in water, fly through the air, explode, or be carried by wind. Limit 24 Students.

### **I. Oval Track 101**

Learn what it takes to create a successful racecar 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.

### **J. Japanese Language and Culture**

Introduce Japanese language and culture. Limit 16 Students.

### **K. Experiments with Electricity**

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

### **L. DIY Circuit Breadboard**

Come learn and explore circuit builds and the basics of electricity flow through circuits. In this session we will familiarize students 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! Limit 16 Students.

### **M. Are You Ready for an Emergency? Let's Get Prepared!**

Do you and your family know what to do in the event of an emergency or disaster? Learn about what supplies and skills can help keep you safe at home or in your community when disaster strikes.

### **N. Worldwide Animal Conservation**

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

### **O. All About Water Rescue**

Richland County Water Rescue provides information on services provided, team structure, and equipment used. A variety of water rescue equipment will be displayed including boats, dive gear, command post, ice rescue sled and more.

### **P. Introduction to Robotics – Lonnie Wurst**

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.

### **Q. 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.

### **R. 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 discussion about use of concrete and job opportunities. Limit 24 Students.

### **S. Who Wants to be a Dental Assistant or 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.

### **T. Desinging 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.

### **U. Ride and Drive**

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

### **V. Motors and Magnetism**

A little motors and magnetism. Limit 16 Students.

### **W. Welcome to the World of Welding**

Welding in a Virtual World. Limit 15 Students.

### **X. Electrical Keychains**

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

**Y. 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.

**Z. Anatomy & Physiology**

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

**AA. Keeping Us Safe**

Teaching kids on how to keep themselves safe in different situations.

**BB. Make Your Own African Musical Instrument**

Learn more about the music of Africa and make your own instrument along the way!

**CC. Super-Smart Smoothies**

How to handle food safety, how to use basic kitchen equipment. Make a healthy smoothie with a variety of ingredients. Limited 16 Students.

**DD. Volunteer FireFighter**

Showing the equipment used by Firefighters. Discussion on the different kinds of training it takes to become a firefighter, also fire safety and prevention.