



**MARKETPLACE FOR KIDS EDUCATION DAY**  
**Wednesday, January 4, 2022**  
**9:00 A.M. – 2:00 P.M.**  
**VALLEY CITY STATE UNIVERSITY**

Welcome!

On-Line Registration opens **Monday, November 14, 2022**. All registrations are “first come first served.” The registration must be complete before it can be processed.

Registration closes **Friday, December 16, 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**

|                     |   |                     |   |
|---------------------|---|---------------------|---|
| 9:15 am – 9:30 am   | Pre-Opening Music   | 11:35 am – 12:00 pm | (Teal) Non-Project Students Lunch           |
| 9:30 am – 9:50 am   | Opening Rally   |                     | (Maroon) Non-Project Students View Projects |
| 10:00 am – 10:25 am | All Students Attend Classes                                       | 12:00 pm – 12:25 pm | (Teal) Non-Project Students View Projects   |
| 10:35 am – 11:00 am | All Students Attend Classes                                       |                     | (Maroon) Non-Project Students Lunch         |
| 11:00 am – 11:30 am | Project Students Eat Lunch  | 12:30 pm – 12:55 pm | All Students Attend Classes                 |
| 11:10 am – 11:35 am | Non-Project Students Attend Classes                               | 1:05 pm – 1:30 pm   | All Students Attend Classes                 |
| 11:30 am – 12:25 pm | Project Students Present Projects at Hall of Great Ideas Showcase | 1:40 pm – 2:00 pm   | Closing Rally                               |

**Class List and Description**

**A. MainStND**

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.

**B. Career Paths in Aviation & the Uses of STEAM**

How STEAM can lead to Entrepreneurship by problem-solving and using critical thinking. Learn about the different career paths in Aviation. Limit 35 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. Limited 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. Smart Money**

A brief overview of the value of saving money and how to start investing. Understanding the balance of spending and saving and how to make “smart money” decisions.

**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. Fun with Chemistry**

Let's play with glitter and fingernail polish remover as an example of how a "calming bottle" is made. In this experiment, we will discuss how different chemicals are attracted or repelled from each other. Limit 24 Students.

### **K. The Wonder of the Human Brain**

Students will learn about how the human brain controls a variety of everyday tasks such as thinking, planning, making decisions, creating categories, and memory. Students will test the limits of their own minds via several interactive experiences such as creating and then attempting to recall a list of items in order and describing characteristics of an image shown only briefly.

### **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. Basic Observational Astronomy**

A quick look at seasonal constellations of the Northern Hemisphere.

### **O. Operation LifeSaver**

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

### **P. A Poetry of Things & Editing Poetry for Publication**

The great American poet William Carlos Williams once wrote "no ideas but in things" to suggest how abstract ideas often emerge from specific details. In the session's first half, we'll focus on how sensory description can help students make a poem from an object in or out of the room. For the second half, we'll transition to editing strategies and introduce students to the submission process for publication. Grades 5 and above. Limit 12 Students.

### **Q. Math and String Art**

We will create geometric patterns using simple lines using paper, markers and rulers. These geometric patterns will spark informal conversation about fractions, geometry, coordinate system, and algebra to name a few. A direct connection is also made to calculus and parabolic curves, which is beyond the scope of the grade level targeted.

### **R. Patient Care in Nursing**

Stations set up for students to explore what nurses do to help prevent altered skin integrity in patients and demonstration for students of wound care and dressing changes. Limit 16 Students.

### **S. Stress Busters**

We all have times when we feel happy, excited, and energetic. We also have times when we feel scared, sad, or overwhelmed. Psychologists can help people understand their emotions and teach them healthy ways to work through their feelings. In this session we will talk about what stress feels like and we will make stress balls that students can use the next time they feel stressed.

### **T. Team Building**

Class building apparatus utilizing instructions and using your team. Limit 16 Students.

### **U. Build Electronic Gadgets for Yourself**

Do you want to create a cool and romantic lighting show? Do you want to build a robot that can run, dance, and be controlled by you? If your answer is yes, join this class! We will present how to build your electronic gadgets through several steps. You will learn about the fundamentals of circuits and how to use resistors while building a smart device with your own hands. Limit 24 students.

**V. 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.

**W. A "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.