MISSION ON MARS

CTE Careers and Pathways
Did you enjoy identifying the pathogen?
Biological Career Opportunities

Bioinformatic Scientist
Bioinformatic Technician
Nurse
Phlebotomist
What is biology?

Biology is the study of living organisms, divided into many specialized fields that cover their morphology, physiology, anatomy, behavior, origin, and distribution.
What does a bioinformatic scientist do?

Bioinformatics scientists' study large amounts of data at the molecular level. They design and update any web-based tools they may need. Bioinformatics scientists often must find ways to solve many biological mysteries in order to meet research goals.
What does a bioinformatic technician do?

Bioinformatics Technicians are individuals who assist scientists in areas of biotechnology, pharmaceuticals, medical technology and more.
What does a nurse do?

Nurses promote health, prevent disease and help patients cope with illness. Nurses advocate for their patients and patients’ families. They develop and manage nursing care plans and instruct patients and their families in proper care.
What does a phlebotomist do?

Phlebotomists draw blood for tests, perform blood transfusions, conduct research and run or assist with blood donations.
THESE PATHWAYS AND COURSES CAN HELP:

Healthcare Sciences Pathway

- Introduction to Medical Careers
- Medical Terminology
- Anatomy & Physiology
- NAC (Pre-Nursing)
THESE PATHWAYS AND COURSES CAN HELP:

Junior High School Pathway

Field Investigations
THESE PATHWAYS AND COURSES CAN HELP:

Science and Natural Resources Pathway

Biology Natural Resources
Biotechnology
Did you enjoy the Virtual Reality Experience?
Programming Career Opportunities

Computer Systems Architect
Software App Developer
Video Game Developer
Information Technology Specialist
Computer Programmer
What is Programming?

Programming is the process of creating a set of instructions that tell a computer how to perform a task. Programming can be done using a variety of computer programming languages, such as JavaScript, Python, and C++. 
What does a Computer Systems Architect do?

A systems architect is a technology professional who develops and implements computer systems and networks for an organization. They define the architecture of a system in order to fulfill certain requirements.
What does an aerospace engineer do?

Aerospace engineers design, develop, test, and produce aircraft, spacecraft, and related systems and equipment.
What does an information technology specialist do?

An IT support specialist help with network analysis, system administration, security and information assurance, IT audits, database administration, and web administration.
What does a computer programmer do?

A computer programmer creates the code for software applications and operating systems. After a software developer designs a computer program, the programmer writes code that converts that design into a set of instructions a computer can follow.
THESE PATHWAYS AND COURSES CAN HELP:

Junior High School Pathway

- Microsoft Office Specialist (7th)
- Introduction to Design Technology (7th/8th)
- Introduction to STEM Careers (7th/8th)
- Computer Science Discoveries (9th)
THESE PATHWAYS AND COURSES CAN HELP:

Skilled & Technical Sciences Pathway

STEM I: Intro to Engineering
STEM II: Engineering and New Technologies
STEM III: Advanced Applied Engineering
Computer Support
Did you enjoy building the Edison?
Manufacturing Career Opportunities

Machinist
Construction Worker
Welder
Electrician
What is Manufacturing?

Manufacturing jobs are those that create new products either directly from raw materials or components. These jobs are usually in a factory, plant or mill.
What does a machinist do?

A machinist is a trained professional, who not only operates machine tools, but has the knowledge of tooling and materials required to create set ups on machine tools including but not limited to milling machines, grinders, lathes, and drilling machines.
What does a construction worker do?

A construction worker is responsible for preparing equipment, operating machinery and taking apart and building structures. They follow their clients’ instructions by using blueprints that determine the type of structure, necessary rooms and spaces, proper measurements and other construction elements.
What does a welder do?

Welders fabricate and assemble metal structures and equipment through the use of welders, cutters, shapers and measuring tools.
What does an electrician do?

Electricians are responsible for inspecting, testing, repairing, installing, and modifying electrical components and systems.
THESE PATHWAYS AND COURSES CAN HELP:

Junior High School Pathway

- Introduction to Design Technology (7th/8th)
- Introduction to STEM Careers (7th/8th)
- Manufacturing Discoveries (9th)
THESE PATHWAYS AND COURSES CAN HELP:

Skilled & Technical Sciences Pathway - PHS

- Manufacturing Discoveries (9th)
- Automotive Technology I, II, & III
- STEM I, II, III
- Robotics
THESE PATHWAYS AND COURSES CAN HELP:

Skilled & Technical Sciences Pathway - RHS

- Manufacturing Discoveries (9th)
- Computer Aided Design and Drafting I & II
- Architecture, Construction & Engineering Academy I, II, & III
- Manufacturing I & II
- Welding I & II
- Robotics
Skilled & Technical Sciences Pathway - ERHS

Manufacturing Discoveries (9th)  
Computer Aided Drafting I & II  
Mechatronics I, II, III  
Robotics