

We Can Do It!

**E-STEAM Project for Girls
2023-24**



science

technology

engineering

art

mathematics



NOVA Southeastern University (FL) Branch



Goal of the E-STEAM Project for Girls

To increase awareness and interest in STEAM-related careers and the pursuit of higher education.

SCIENCE ACTIVITIES

BLOOD TYPING/FORENSIC SCIENCE








What are blood types?

There are 3 alleles or genes for blood type: A, B, & O. Since we have 2 genes, there are 6 possible combinations.

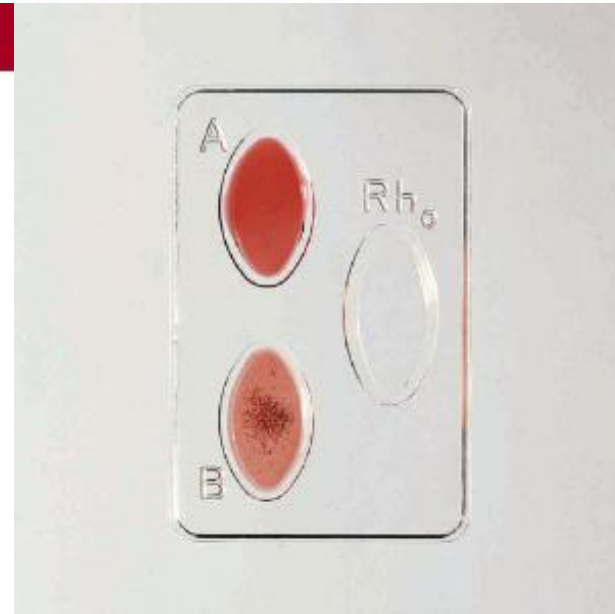
Blood Types

AA or AO = Type A
 BB or BO = Type B
 OO = Type O
 AB = Type AB

The ABO Blood System

Blood Type (genotype)	Type A (AA, AO)	Type B (BB, BO)	Type AB (AB)	Type O (OO)
Red Blood Cell Surface Proteins (phenotype)				
Plasma Antibodies (phenotype)			NONE	

<http://learn.genetics.utah.edu/content/blood/types.cfm>





SCIENCE ACTIVITIES

SQUID DISSECTION/ANATOMY





SCIENCE ACTIVITIES MICROSCOPY WITH PLANKTON/MARINE BIOLOGY





SCIENCE ACTIVITIES

WATER QUALITY TESTING/CHEMISTRY

DIP

IN THE WATER
SAMPLE FOR 2
SECONDS



WAIT

120 SECOND TO
READ RESULT



COMPARE

STRIP COLOR WITH
THE CHART





TECHNOLOGY ACTIVITIES VIRTUAL REALITY





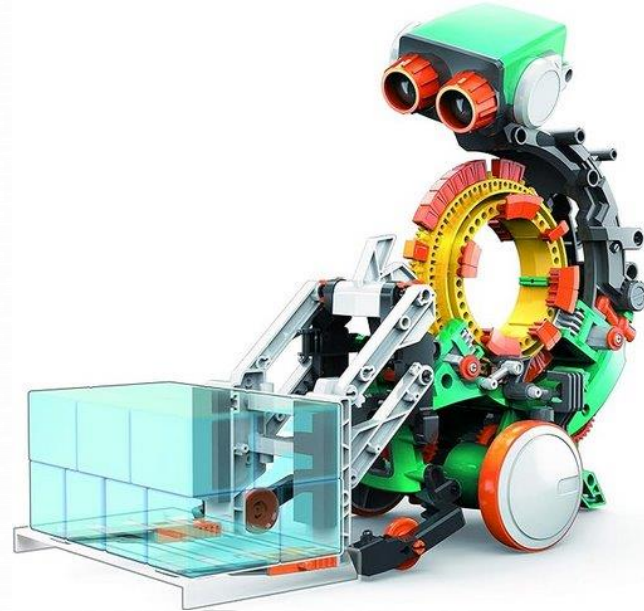
TECHNOLOGY ACTIVITIES LIBRARY TECHNOLOGY





ENGINEERING ACTIVITIES

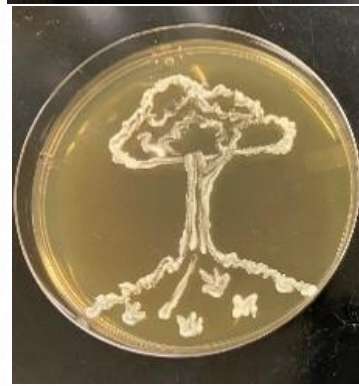
CODING ROBOTS





ART (AND SCIENCE) ACTIVITIES

AGAR ART/ART & MICROBIOLOGY



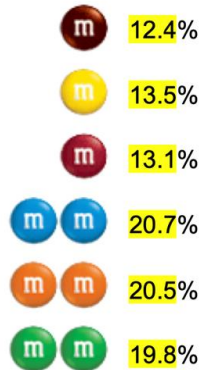


MATH ACTIVITIES

M&M MATH/STATISTICS

How does your large sample compare to the population?

The Official Point Estimates for Plain M&M's®
(Note: this is for Cleveland plant- CLV in date code)



CAREER EXPLORATION



- Researcher
- Environmental Scientist
- Food Scientist
- Quality Control Scientist
- Biochemist
- Occupational Health and Safety Specialist
- Nurse
- Neurosurgeon
- Marine Biologist



- Cyber Security
- Computer System Analyst
- Software Developer
- Web Developer
- Systems Administrator
- Network Administrator
- Game Developer



- Biomedical Engineer
- Chemical Engineer
- Electrical Engineer
- Petroleum Engineer
- Hardware Engineer
- Aerospace Engineer
- Nuclear Engineer
- Environmental Engineer



- Graphic Designer
- Web Designer
- Industrial Designer
- Multimedia Artist and Animator
- Art Director
- Product Designer



- Actuary
- Statistician (entry-level positions)
- Operations Research Analyst
- Budget Analyst
- Data Analyst

Nova Southeastern University Tour



SELF CARE AND ENTREPRENEURSHIP



GOAL SETTING VISION BOARDS





CONGRATULATIONS!

HADAS





CONGRATULATIONS!

ALYSSA





CONGRATULATIONS!

SAVANNAH P.





CONGRATULATIONS!

NEVAEH





CONGRATULATIONS!

SAMANTHA G.





CONGRATULATIONS!

KINYAH





CONGRATULATIONS!

RAMISHA





CONGRATULATIONS!

HANNAH



The background is white with a faint, light blue circular pattern in the center. There are several realistic water droplets of various sizes scattered around the edges, with highlights and shadows giving them a 3D appearance.

THANK YOU!