BRIDGE DESIGN CHALLENGE

Students act as structural engineers and learn about forces and load distributions as they follow the steps of the engineering design process to design and build small-scale bridges that can carry a load. (60 min)

ND Science Standards: HS-ET1-2; HS-ET1-3

EARTHQUAKE-PROOF SKYSCRAPERS

Students are challenged to build the tallest earthquake-proof skyscraper. Using the engineering design process, they will design and build skyscrapers for height, stability, and strength to withstand a simulated earthquake. (60 min)

ND Science Standards: HS-ET1-2; HS-ET1-3

MARBLE ZIPLINES

Fight gravity in this STEM workshop designed to challenge your best engineers. Can you work as a group to build a safe yet fast zip line for our marble passenger? Use your math and engineering skills to safely deliver your marble to the landing zone. (60 min)

ND Science Standards: HS-PS2-3

DISSECTION (SHEEP EYE)

Sheep eyes closely resemble the human eye. Students will observe, learn the anatomical structures and compare form and function of the sheep eye. (45 min)

Non-refundable materials fee of $50 and 4 weeks advanced booking required.

ND Science Standards: HS-LS1-1; HS-LS1-2

DISSECTION (FROG)

The dissection of preserved frogs is an engaging introduction to vertebrate anatomy and mature body systems. Students will explore the anatomy of the frog and learn how anatomical structures are related to their functions. (45 min)

Non-refundable materials fee of $50 and 4 weeks advanced booking required.

ND Science Standards: HS-LS1-1

FORENSICS

Work as forensic investigators and use techniques of forensic science to analyze evidence left behind at a crime scene. Use deductive reasoning to evaluate fingerprints, chromatography, fibers, smells, liquids, powders, and blood evidence to determine the criminal's identity. (60 min)

ND Science Standards: HS-LS1-1; HS-PS1-2

FINCHES AND CODING

Learn the basics of coding with our Finch robots. Robots will follow lines and perform other programmed tasks, based on how the student progresses. Depending on age range and skill level, several concepts will be introduced using this whimsical bird. (60 min)

ND Computer Science & Cybersecurity Standards: HS.DD.1