



## ROBOTICS

### **JUNIORS & CADETTE (\$22 per Scout; \$20 for CMSC members)**

4 hours:

1. Robots – Learn about the different types and how robotics are being used across a wide variety of fields today.
2. Rovers – Learn about the use of robotics in space exploration.
3. Robot Construction – Build an NXT robot.
4. Robot Challenge – Program an NXT robot to drive through a predetermined course.
5. Robot Lab – Run a mission in our Robotics Lab.
6. Careers – Discover what careers and employment opportunities can be earned through this field of study.

**NXT:** The girls will be split into teams. Each team will build their own NXT robot, which they will then have to figure out how to get it through a course marked off on the floor. A competition will be held between the different teams based on earning points for different achievements inside the course (how far it gets through the course, how few times it doesn't touch a barrier, and whether it can stop directly on the finish line).

Juniors can apply this program to their "It's Your Story – Tell It!" Journey. Suggestions are to apply this session to the awards you can potentially earn along the aMUSE Journey. Girls get to explore the many different kinds of roles that are involved with this robotics program, and learn about the leadership skills they are using in this field. Speak out against stereotypes – did you know that women are the minority in the Robotics field? Why is that? Also, try out the many roles that you can have during this session. Even if none are for you, make a promise to yourself to keep trying out new roles as a leader in life!

Cadettes can apply this program to their "It's Your Story – Tell It!" Journey. Suggestions are to apply this session to the "Hey, I Can't Hear (or See) Me!" section on stereotypes. Who do you think of when you think of someone involved in Robotics? Discuss diversity, and give suggestions on what you can do to dispel any associated stereotypes with this, or any other STEM careers!

