Day 6: Work on Challenges and Show Your Parents

(6 of 6 of the Robotics Club Module)

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# Summary

Students will finish up their challenges courses or the challenges they have been working on during the first 30 minutes hopefully. If students finish doing their own challenge course, they can try someone else’ challenge course. In the second 30 minutes the parents will come to see a presentation with pictures about what the students have done over the past six sessions. The parents can then go to their children so their children can show they the challenge courses they made or the ones they have done.

# Engineering Connection

Engineers often need to present their work to others, such as people bosses or those funding their work. This is what the students will do for their parents in this session today.

# Grade Level

4-6

# Duration

60 minutes

# Cost Per Group

$0

# Materials List

Each group needs:

* Lego NXT robot - $279
  + including the ultrasonic sensor for the NXT robot
* A computer with the Lego NXT software installed

To Be Shared By All:

* Some paper, tape, markers, and other similar material for the students to use to make their challenge courses.
* A projector or something similar for displaying the presentation slides.

# Learning Objectives

After this activity, students should be able to:

* Work with a technology design
* Apply their understanding about science and technology
* Demonstrate abilities of a technological design
* Use troubleshooting as a problem-solving method used to identify the cause of a malfunction in a technological system.
* Use information provided in manuals, protocols, or by experienced people to see and understand how things work.

# Procedure

* Before the activity:
  + Create a presentation to show to the parent. The presentation should describe what the students did each day and show pictures of the students working on those things.
* For the activity:
  + For what to do for the first 30 minutes of the session, see the presentation slides and their notes.
  + The parents should come in the second half of the session to watch your presentation and then talk to their particular student to see what he/she has done, including seeing their challenge course if they made one.