

Math with Robots 1

Day 1 (3 hours) Nov. 16, 2019 10AM – 1PM

- Welcome (**10 Minutes**)
- Pre-Assessment (**20 Minutes**)
- Distribute/Unpack Kit (**30 Minutes**)
- Break (10 Minutes)
- Activity 1: Student Observations (**30 Minutes**) (*15 work/15 discuss*)
- Activity 2: Wheels Pre-Laboratory (**20 Minutes**) (*15 work/5 discuss*)
- Break (10 Minutes)
- Activity 3: Wheels Laboratory (**50 Minutes**) (*40 work/10 discuss*)

Day 2 (3 hours) Nov. 23, 2019 10AM – 1PM

- Activity 4: Wheels Post-Laboratory (**50 Minutes**) (*40 work/10 discuss*)
- Break (10 Minutes)
- Activity 5: Building Your Robot (**50 Minutes**) (*5 intro /45 work*)
- Break (10 Minutes)
- Activity 6: Robot Activity: Wheels 1 (**50 Minutes**) (*40 work/10 discuss*)
- Clean-up (10 minutes)

Day 3 (3 hours) Nov. 27, 2019 12:30 - 2:30 PM

Breaks as Needed

- Activity 7: Pre-Robot Activity Wheels II (**50 minutes**) (*30 work/20 discuss*)
- Activity 8: Robot Activity: Wheels II (**50 minutes**) (*40 work/10 discuss*)
- Wheels Closure (**30 minutes**)
- Activity 1: Student Observations (**30 minutes**) (*15 work/15 discuss*)
- Activity 2: Gear Pre-Laboratory (**20 minutes**) (*15 work/5 discuss*)

Day 4 (3 hours) Dec. 7, 2019 10AM – 1PM

- Activity 3: Gears Laboratory (**50 minutes**) (*40 work / 10 discuss*)
- Activity 4: Modify and Reprogram your Robot (**50 Minutes**)
- Activity 5: Robot Activity: Gears (50 Minutes) (**40 work / 10 discuss**)

Day 5 (3 hours) Dec. 14, 2019 10AM – 1PM

- Activity 6: Design Challenge – Wheels and Gears (**100 minutes**)
- Activity 7: Design Challenge – Wheels and Gears Competition (**50 minutes**)

Day 6 (2 hours) Dec. 20, 2019 11:30AM – 1:30PM

- Post-Assessment (**30 Minutes**)
- Wheels and Gears Closure (**30 Minutes**)
- PTC Presentation (**60 Minutes**)