

MORNING LESSONS - MORE LEARNING FOCUSED

1. Monday

Start with bridge after big circle or lego challenge

- a. Lesson Theme - learning to navigate coding, ports power for brains and laptops, brain, missing pieces, Teamwork strategies ,

- i.

- Hopper Race (Invention Squad)

- 1. <https://education.lego.com/en-us/lessons/prime-invention-squad/hopper-race#lesson-plan>

Then break dancing

2. Tuesday

~~Zipline~~- Do racing down ramp

- a. Lesson Theme - Advanced Driving optional touch sensor
 - i. Camp 1

- <https://education.lego.com/en-us/lessons/prime-competition-ready>

Mice as side activity

2 grabber

catapult

3. Wednesday Owl

~~Racing cars down ramps~~- do zipline

- a. Lesson Theme - playing with objects
 - i. Camp 2

- <https://education.lego.com/en-us/lessons/prime-competition-ready>

4. Thursday

Crash cars

- a. Lesson Theme - Reacting to Lines/car with pick up
 - i. Camp 3

- <https://education.lego.com/en-us/lessons/prime-competition-ready>

- b. Grabber/ catapult

5. Friday
Volcano

a. Sumo Bot

<https://docs.google.com/document/d/1TRPX1GOsl7q-s38R7zmYJ2azAoj0s1SIGotX6d8jamc/edit>

b. Soccer

1. Builds - Break Dancing Robot (Life Hacks) Coding

<https://education.lego.com/en-us/lessons/prime-life-hacks/break-dance/student-worksheet>

2. Catapult with target

<https://www.filcasts.com/materials/1060-pallo-a-lego-spike-prime-catapult-robot-with-target>

3. Motor bike robot

<https://education.lego.com/en-us/lessons/prime-training-trackers/this-is-uphill#prepare-for-blended-learning>

4. Big Wheel Robot (uses Sensors) https://www.filcasts.com/course_sections/1237

5. Spike the Owl <https://www.filcasts.com/materials/1045-tohuru-lego-spike-prime-owl-robot>

6. Lego Dog <https://drive.google.com/file/d/11clz-rKmcxFmha7PORuqae0asDnzxRAL/view>

7. Beyoblaed launcher

<https://drive.google.com/drive/u/3/folders/1Pu6sNbWmYMJMiwZSarawSd9JnbOkYScJ>

8. Jousting game

<https://drive.google.com/drive/u/3/folders/1Pu6sNbWmYMJMiwZSarawSd9JnbOkYScJ>

9. Lego Dragster

<https://drive.google.com/drive/u/3/folders/1Pu6sNbWmYMJMiwZSarawSd9JnbOkYScJ>

5 Breaks:

- Makey Makey- chrome books mario game
- Dashes (if able to split or could do on different day from coding camp)
- Smoke bubbles/elephant toothpaste
- Meeper Cars 4 small androids
- Snap Circuits

Great ideas for team building

http://www.frcteam180.com/wp-content/uploads/2017/11/Timeline-LEGO-CIAB-updated-11_1_17-Google-Docs.pdf

1. LEGO Balloon Car

<http://www.homegrownlearners.com/home/2013/6/5/lego-education-simple-machines-and-a-lego-balloon-car.html> • LEGO rubber band

2. Lego Bridge <https://frugalfun4boys.com/lego-fun-friday-bridge-building-challenge/>
3. Lego Zipline
4. Creature Creation ○ Ask each team to make their favorite animals, like a dog or a fish, from Lego. Let the campers take turns showing off their creations
5. Tower Power ○ Have each team and their FIRST Friend grab two handfuls of LEGO pieces and challenge them to build the tallest freestanding tower in under 2 minutes. The winning team receives points on their scorecard.
6. Jeopardy Labs - Everything Lego is good
7. Build a movie scene from legos
8. Crash test cars