

IT Girls Robot Crawler

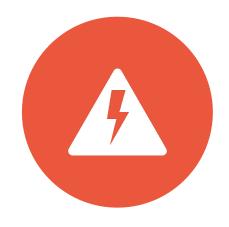
BERKELEY LAKE ELEMENTARY



LET'S GET STARTED!

ROBOT CRAWLER FROM KIWICO

Scientific idea's that will drive our robot



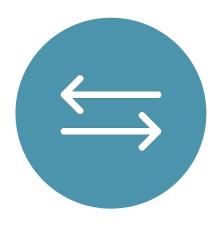


The ability of Electricity to do work.



MECHANICAL ENERGY

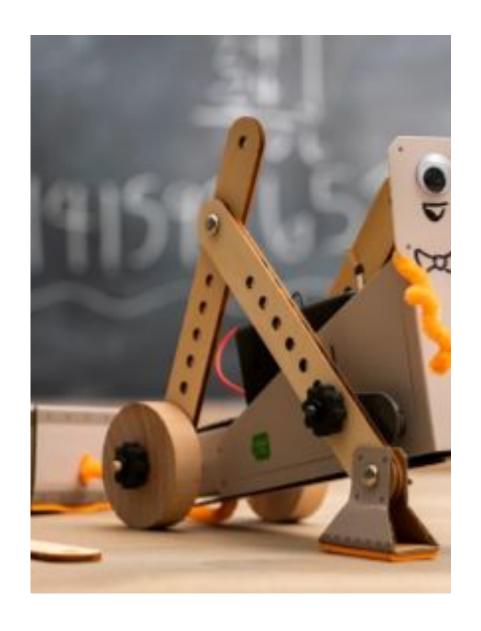
The energy an object has while it's moving



FRICTION

A force that can slow down or stop slipping and sliding when two surfaces rub against each other.





ROBOT CRAWLER

Today we are going to build a robot crawler. The goals of our project are to:

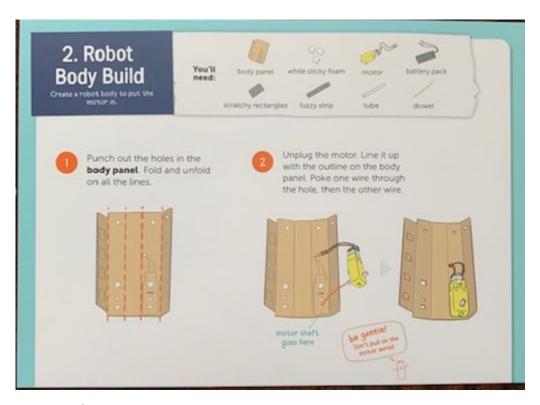
- Build, modify and optimize a robot crawler that uses energy to walk
- Modify our robot for experimentation to walk backward or forward
- Modify the robot to walk as fast as possible
- Look at the variables to improve the robots performance.

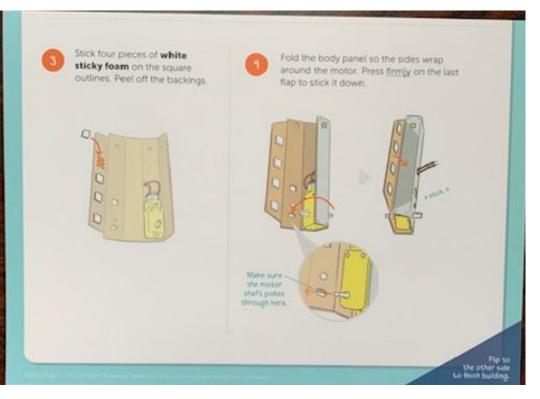




MOTOR BUILD

ROBOT BODY BUILD











NEXT TIME [November 30 th]

- **☐** Explore concepts of speed and time
- Describe impact of variables on the robot's motion
- What to expect for the wrap up session

