**Chapter 1: History of Mindstorms.** 











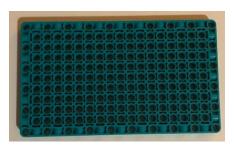
**Chapter 2: Getting Started with the Robot Inventor Kit.** 



















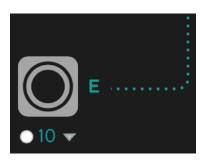


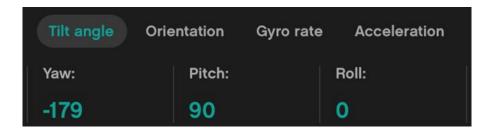


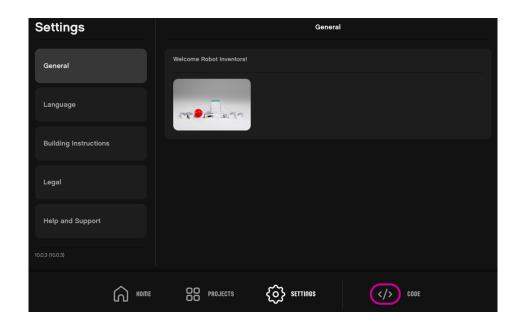




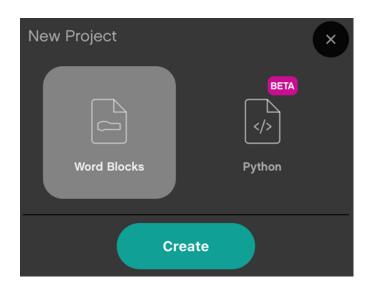


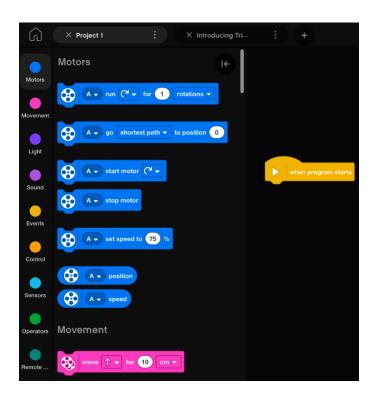






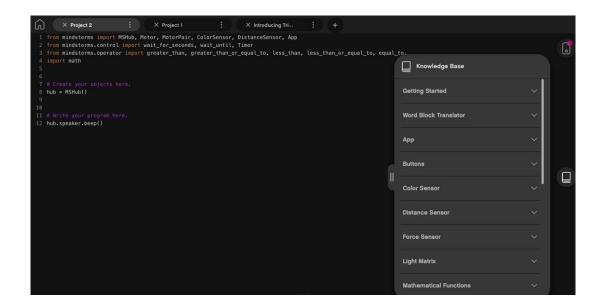


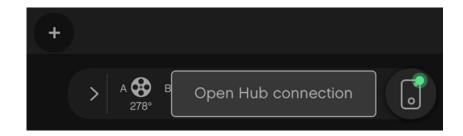






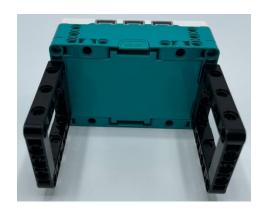
















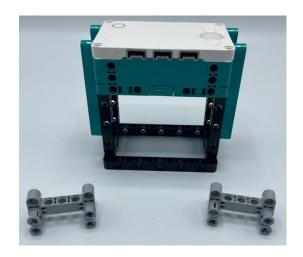






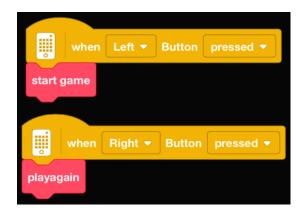


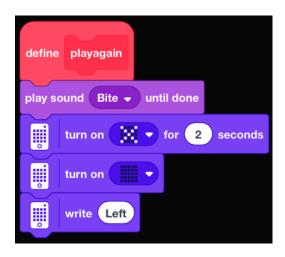




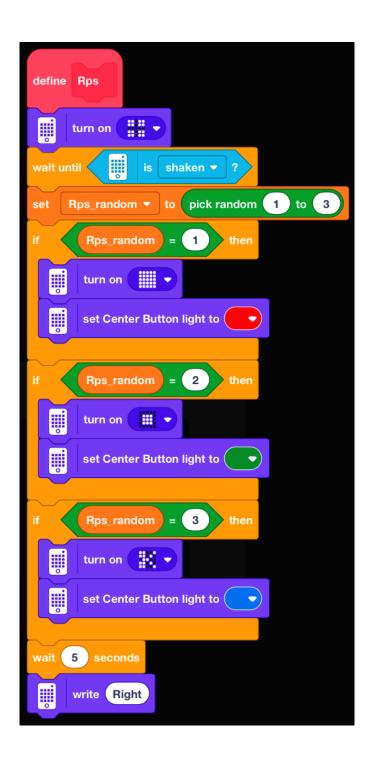


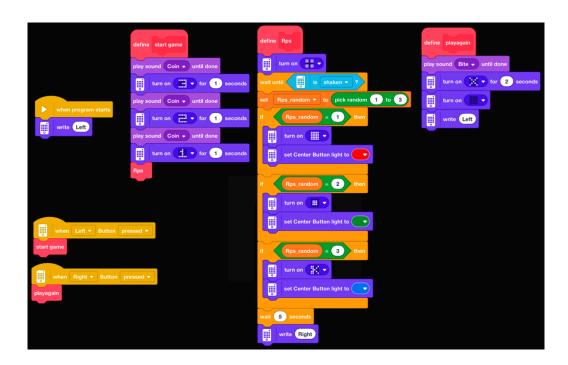




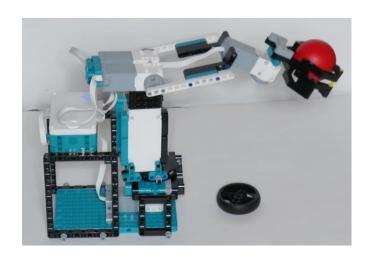


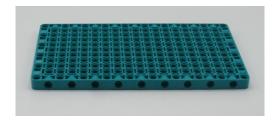


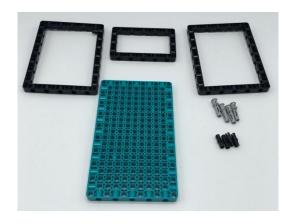


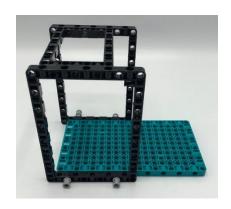


**Chapter 3: Building an Industrial Robot Claw.** 













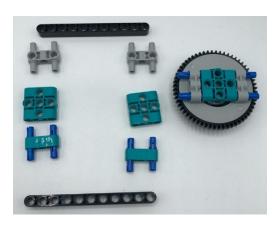






















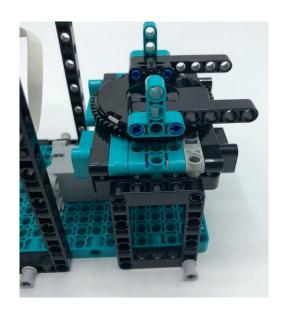






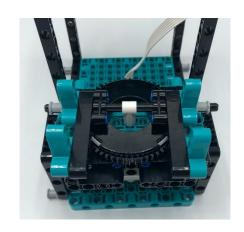






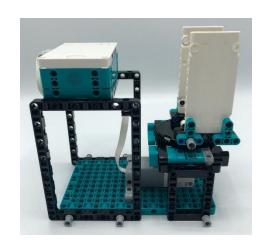


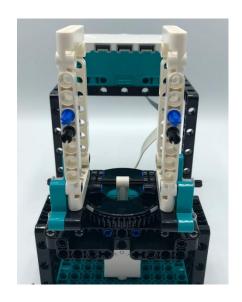




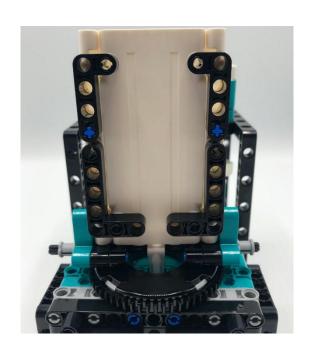








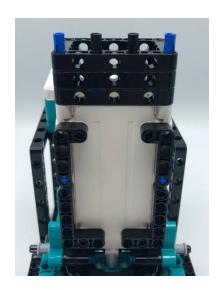




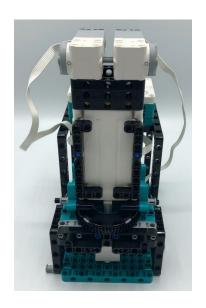


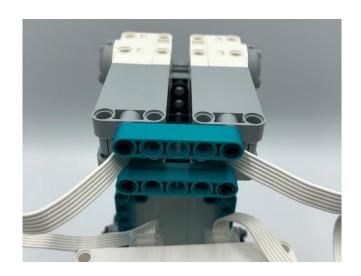


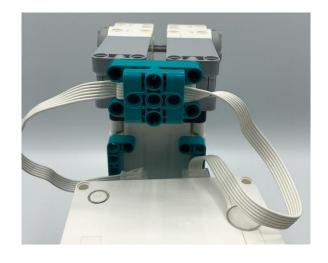


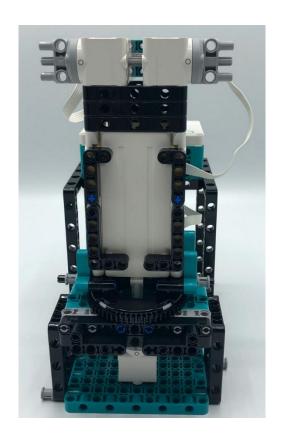








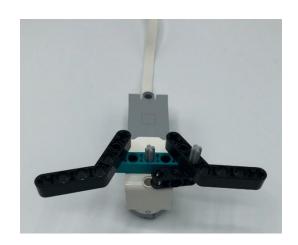






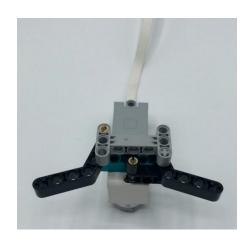


























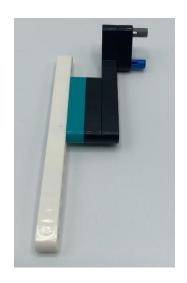


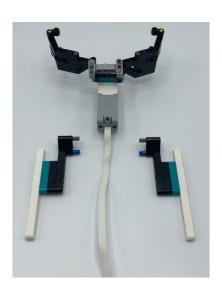


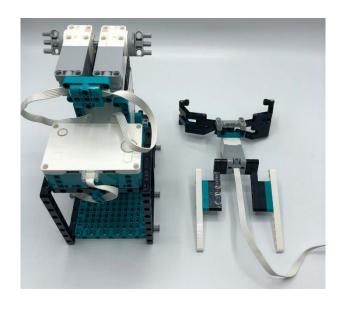






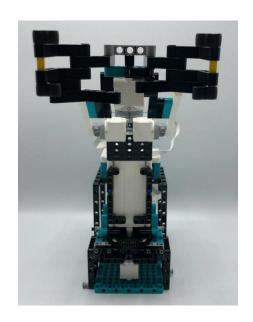


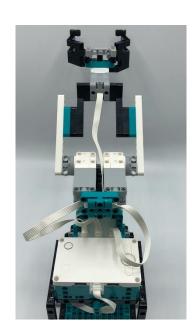




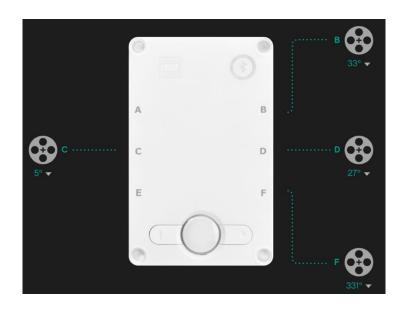








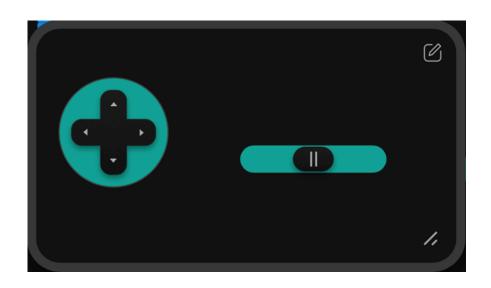




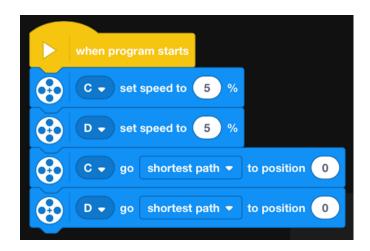


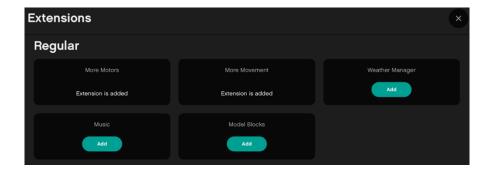


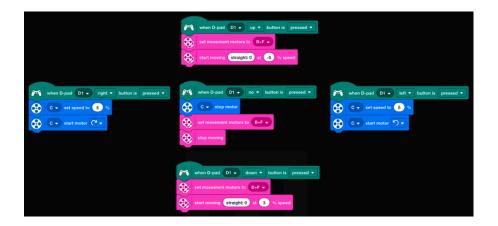




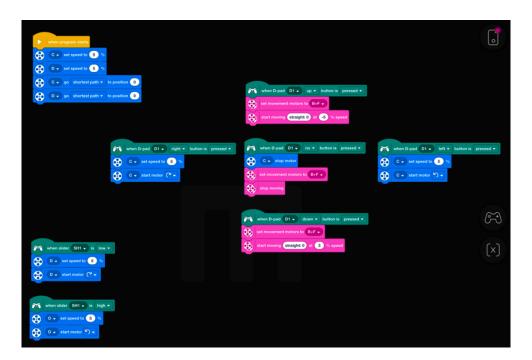










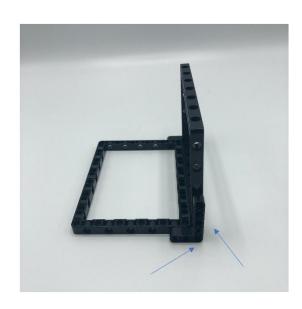


Chapter 4: Building a LEGO Guitar.





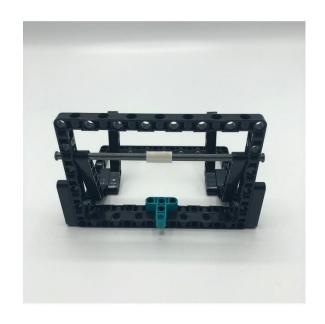


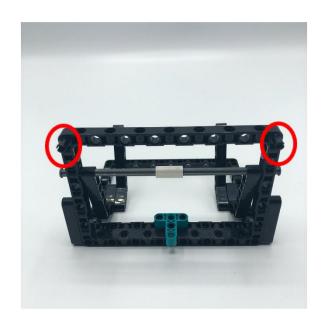








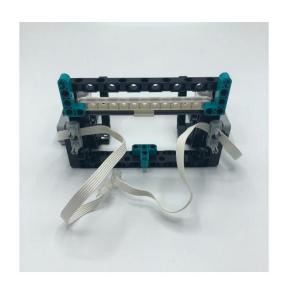








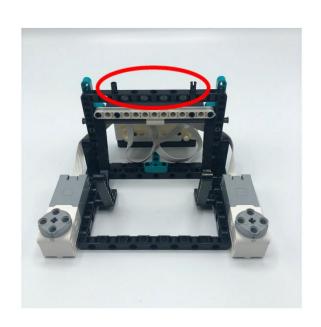


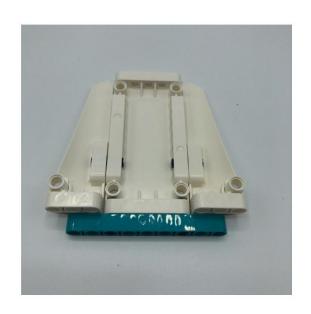


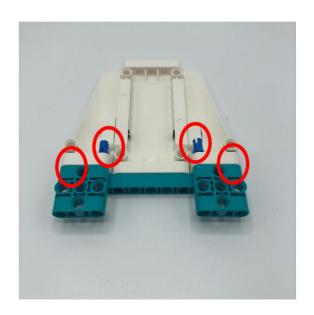


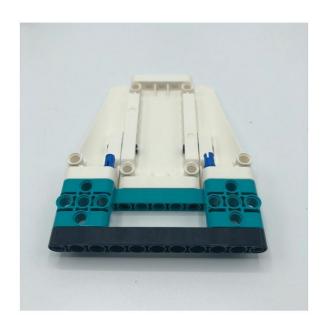


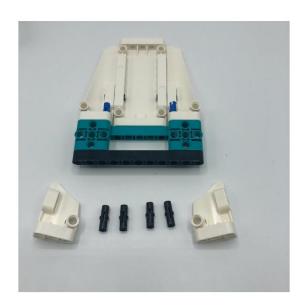






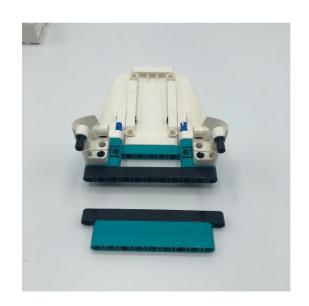


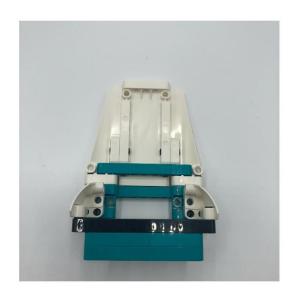


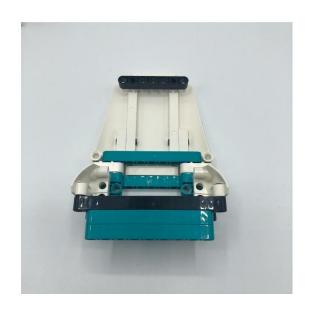




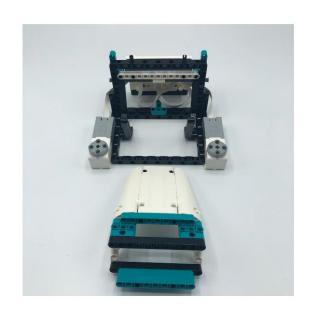


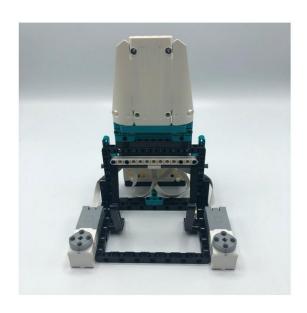


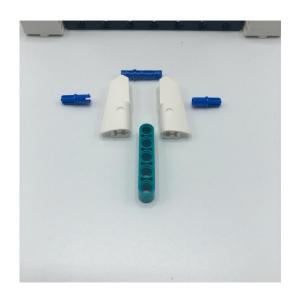










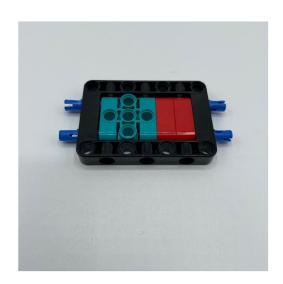






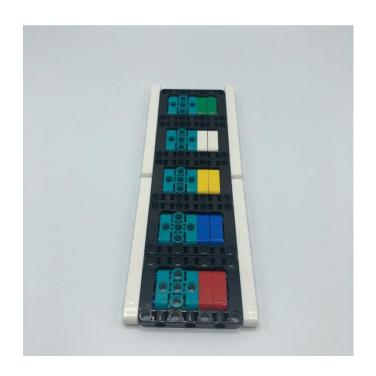




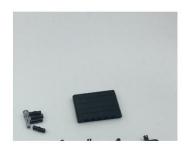
















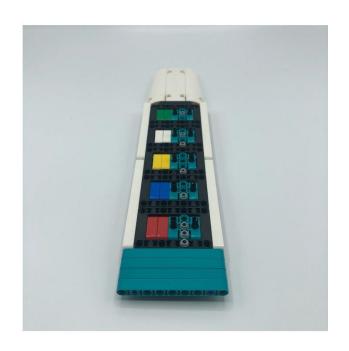












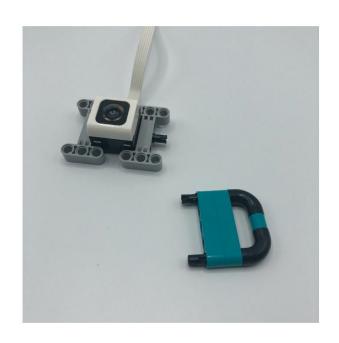


























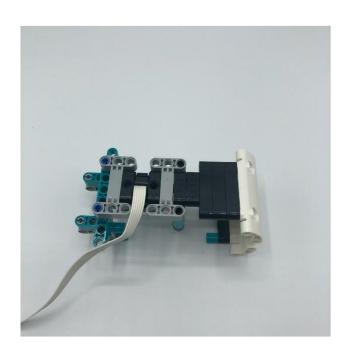


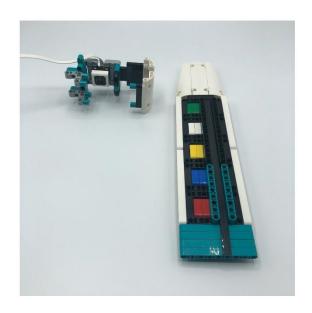


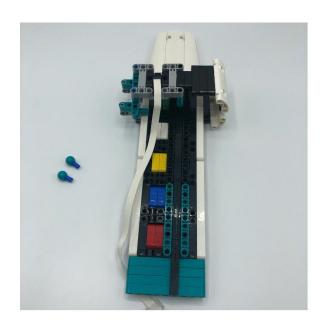


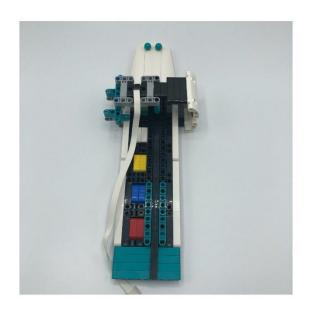


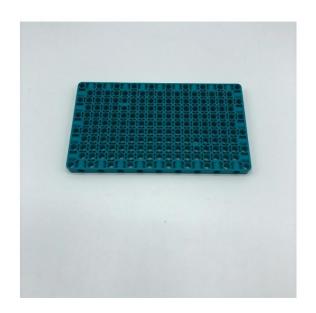


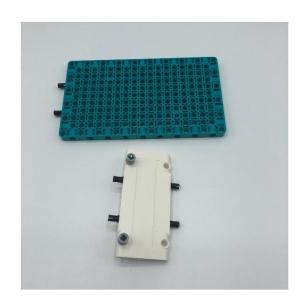


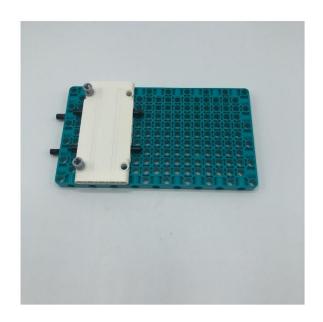






























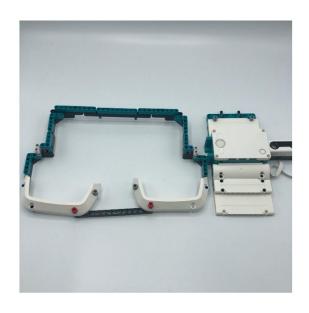


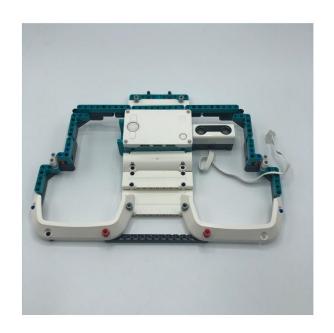


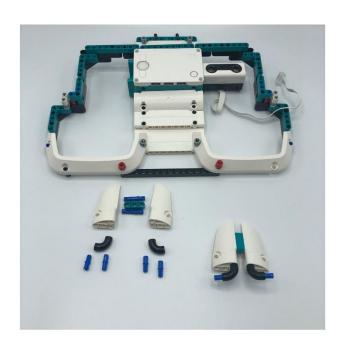


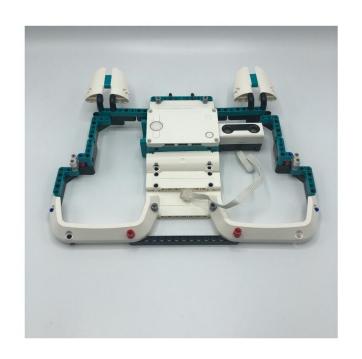


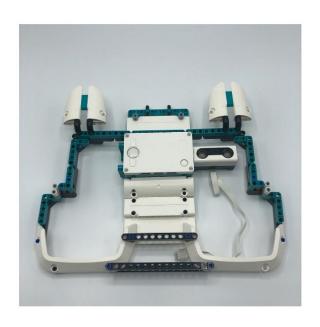


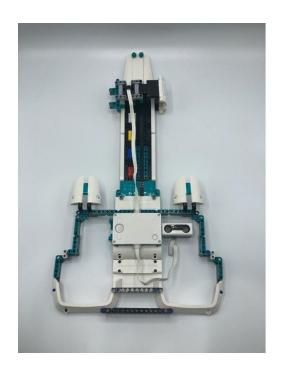


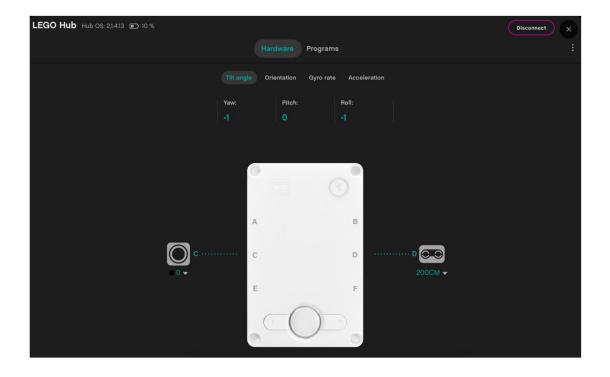




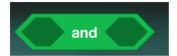


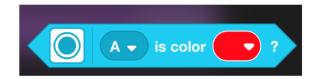




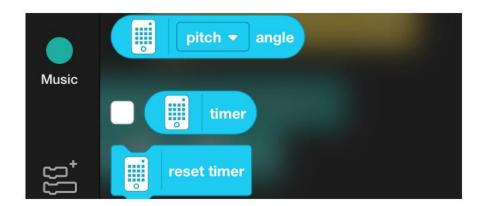


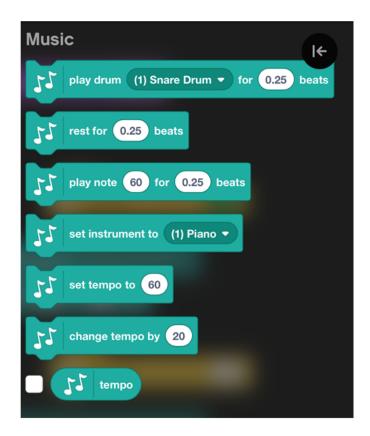


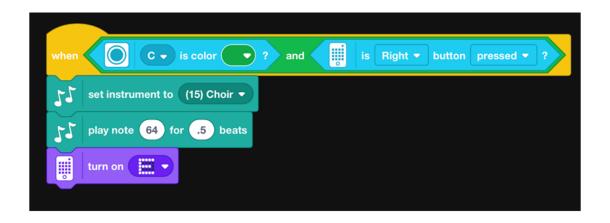


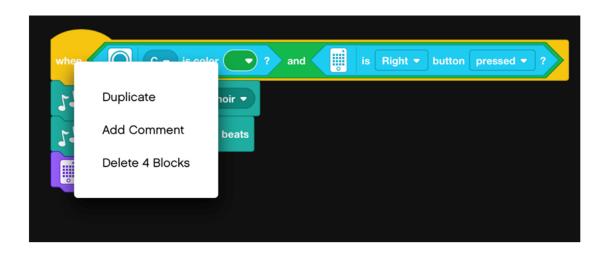




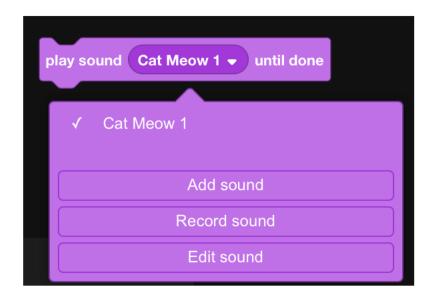








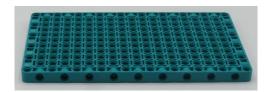


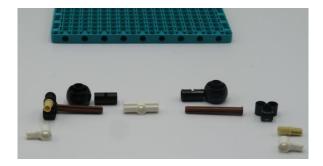




**Chapter 5: Building a Scorpion.** 



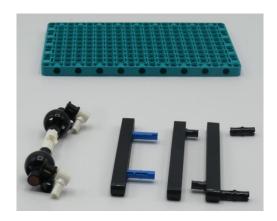


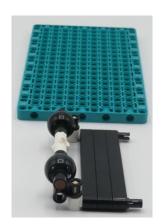


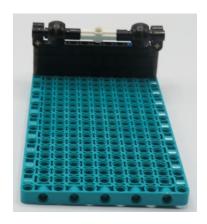


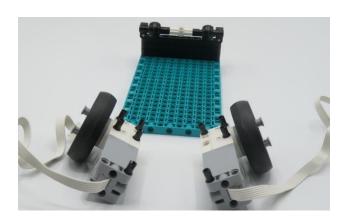


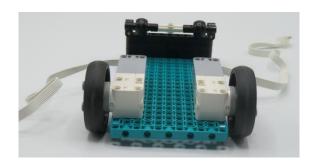


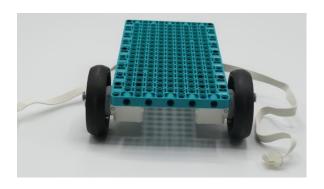


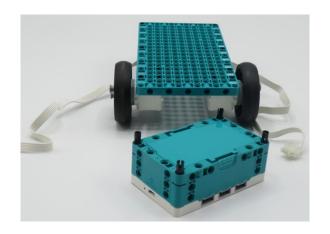


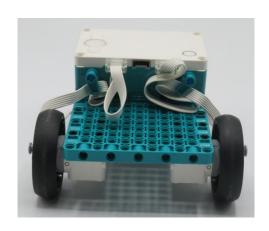




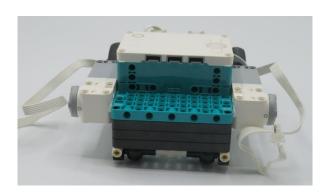








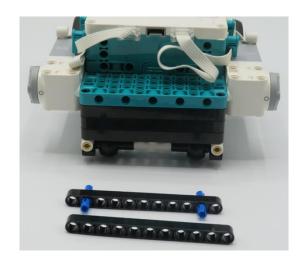








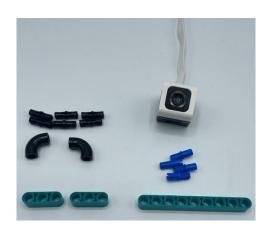


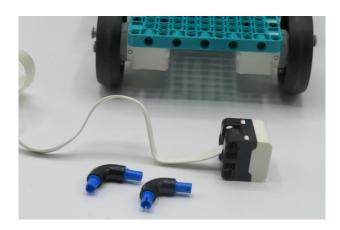




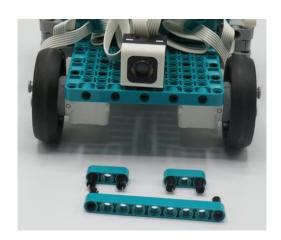




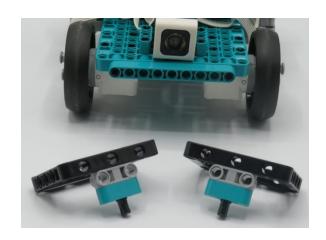


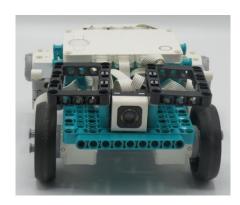
























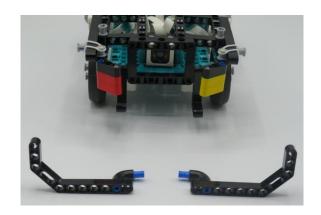


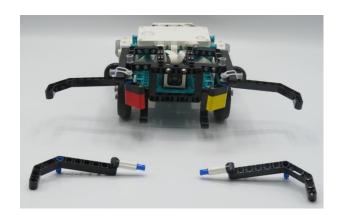


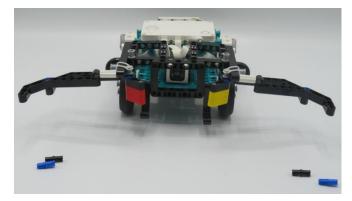








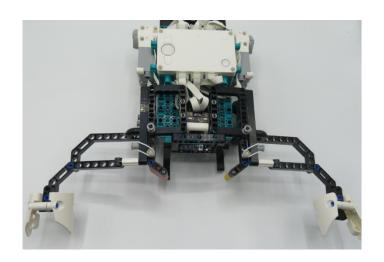


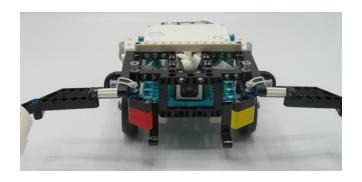






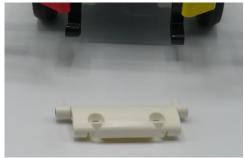


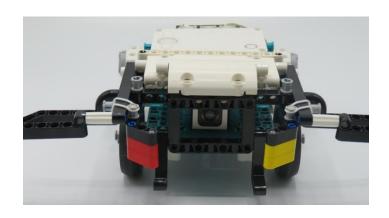


























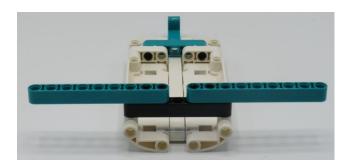


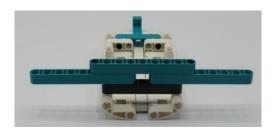








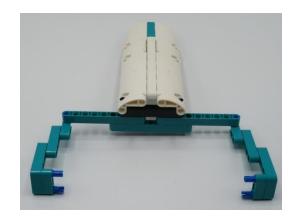


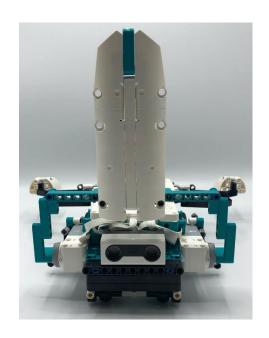




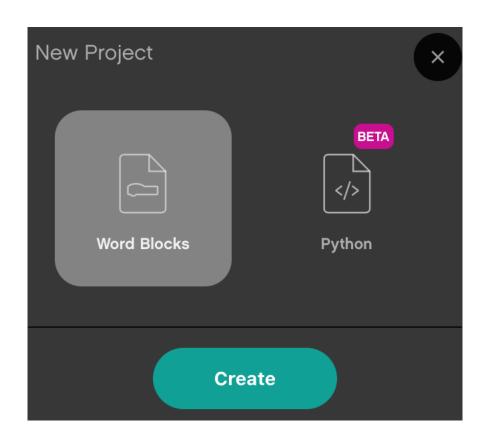


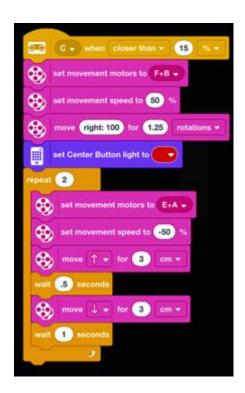




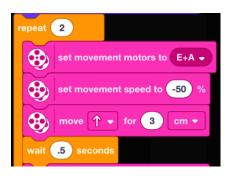


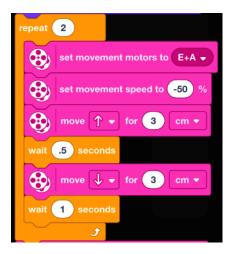


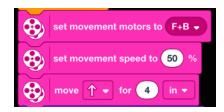




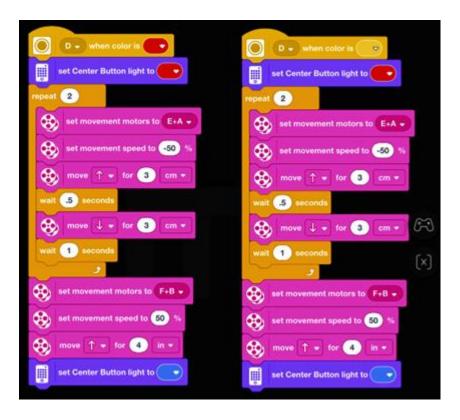


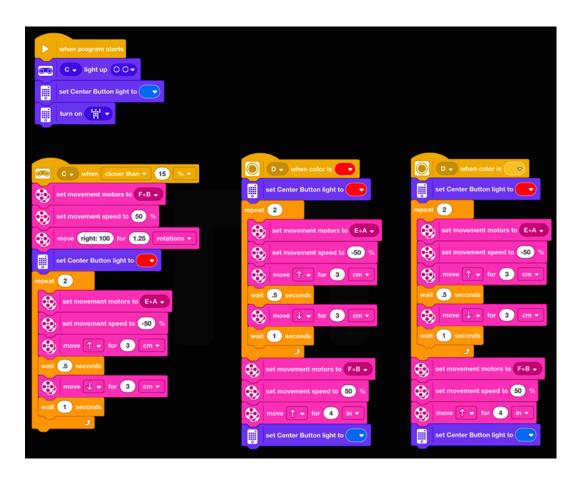


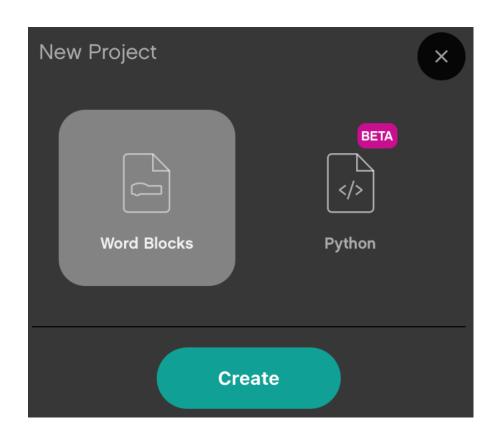






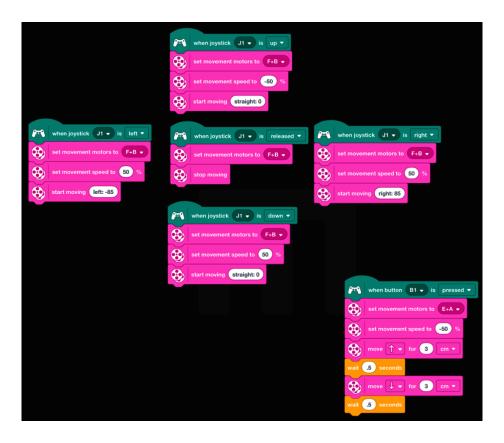






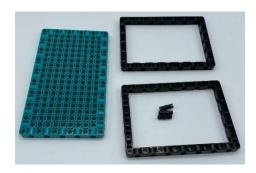


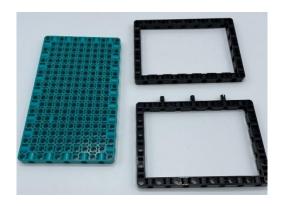




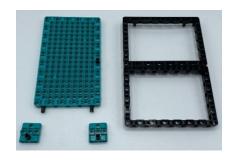
**Chapter 6: Building a Solid Sumobot.** 

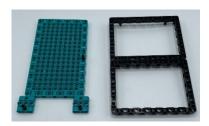


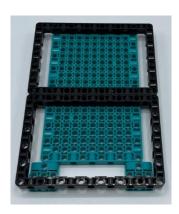


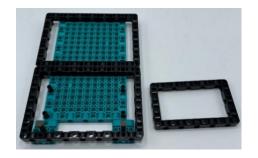


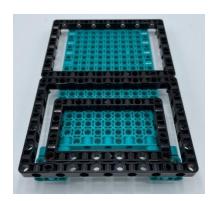


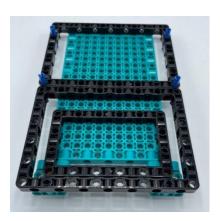


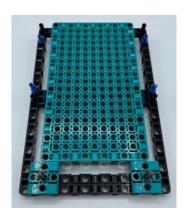




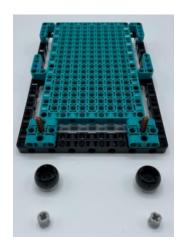


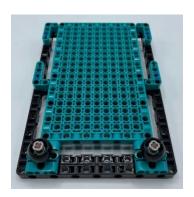


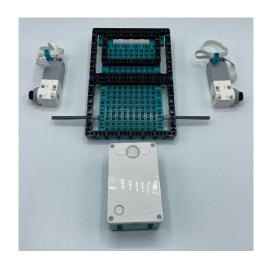


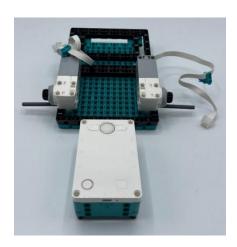








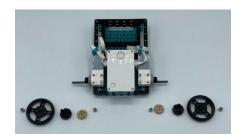








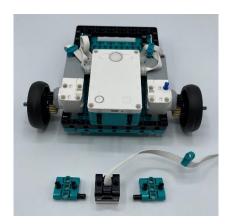
































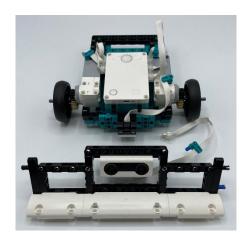




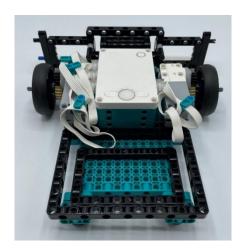


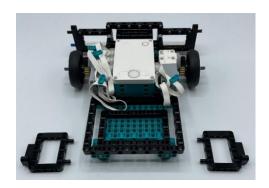


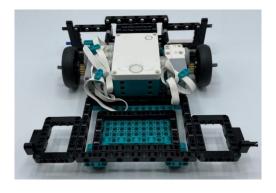


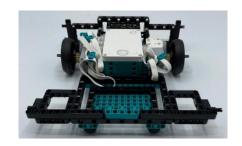


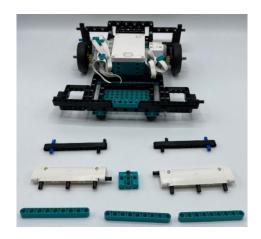


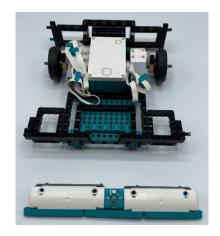


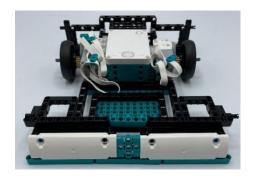


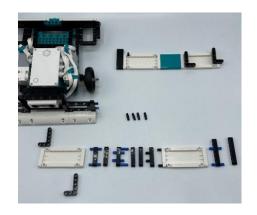


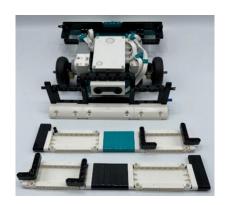


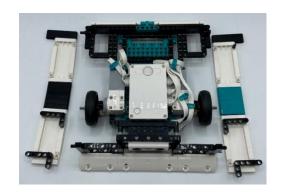


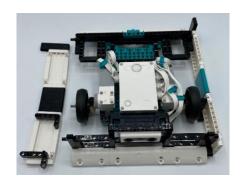




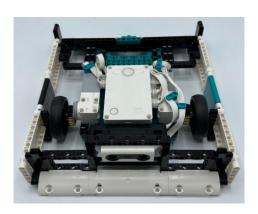


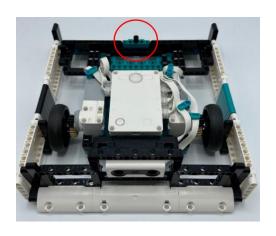


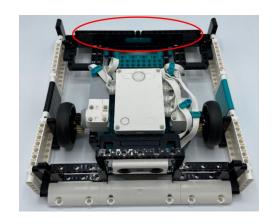


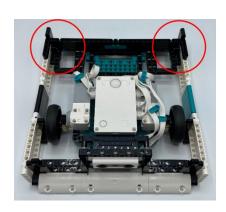


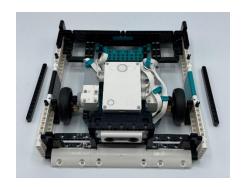


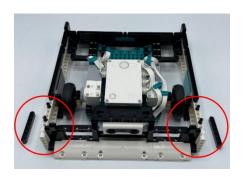




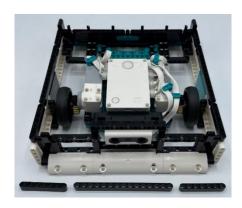


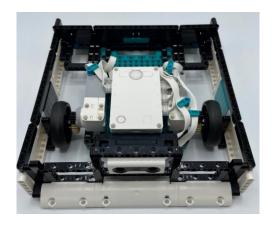




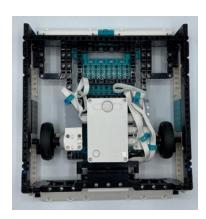


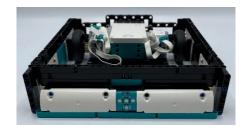


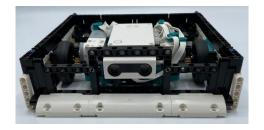






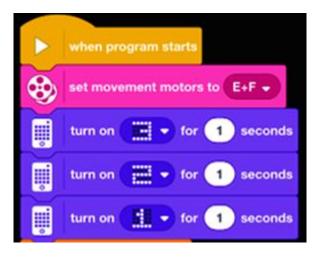


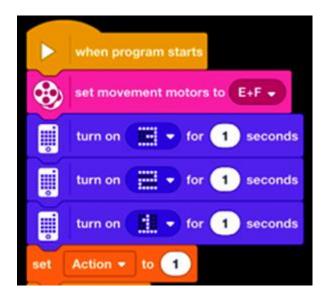


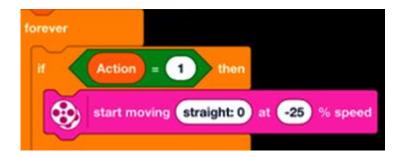


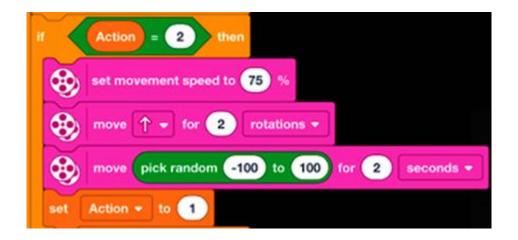


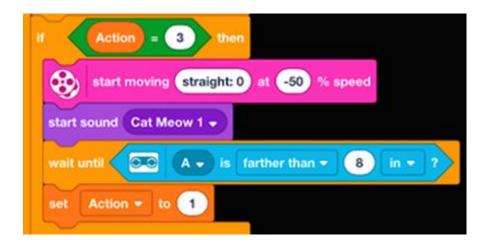


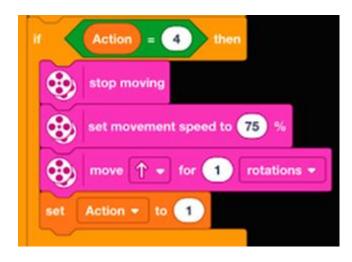


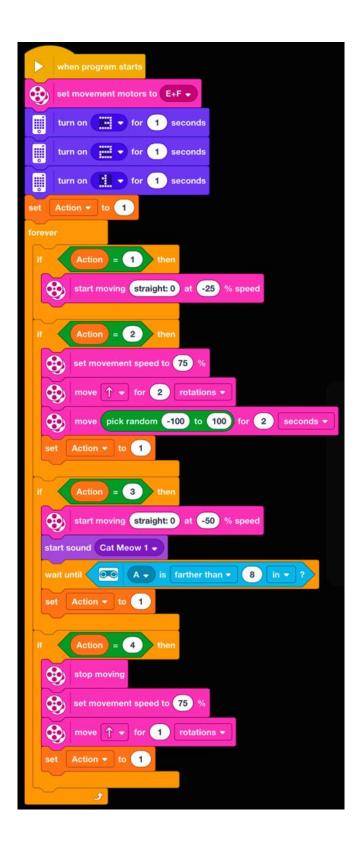












```
forever

If A is closer than v 6 in v? then

set Action v to 3

If A is closer than v 6 in v? and C v reflection > v 90 %? then

set Action v to 4
```

```
when program starts

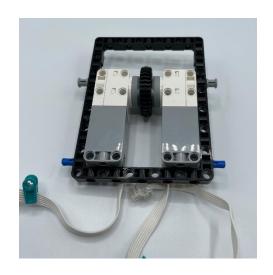
set movement motors to E+F •
turn on for 1 seconds
turn on for 1 seconds
 turn on for 1 seconds
                                                          c • reflection > • 90 %? then
    Action ▼ to 1
    Action = 1 then
  start moving straight: 0 at -25 % speed
    Action = 2 then
  set movement speed to 75 %
  move ↑ v for 2 rotations v
                                                          A v is closer than v 6 in v ? the
  move pick random -100 to 100 for 2 seconds -
   set Action ▼ to 1
                                                            A v is closer than v 6 in v 7 and C c v reflection x v 60 % 7
   Action = 3 the
                                                          set Action → to 4
  start moving straight: 0 at -50 % speed
  start sound Cat Meow 1 • wait until A • is further than • 8 in • 7
   set Action ▼ to 1
    Action = 4 the
  set movement speed to 75 %
  move 🕆 🕶 for 1 rotations *
   set Action • to 1
```

## **Chapter 7: Building a Dragster.**

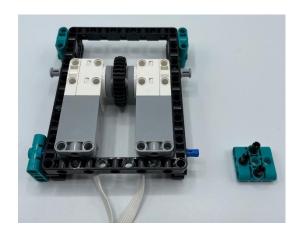


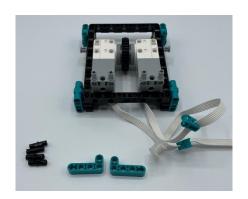


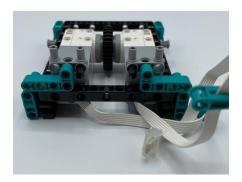


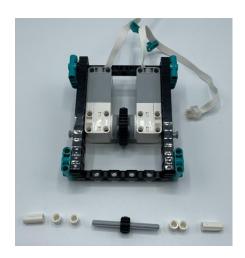


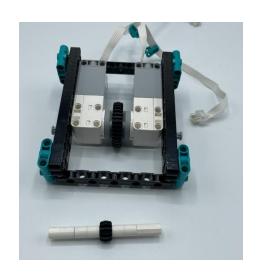


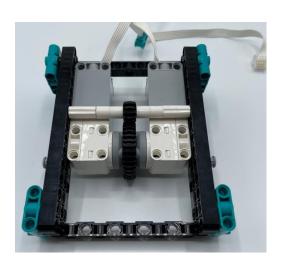


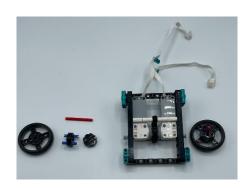


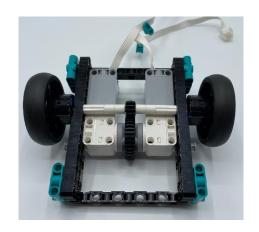






























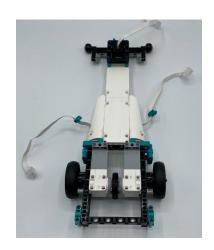




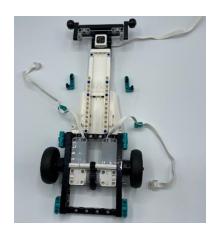


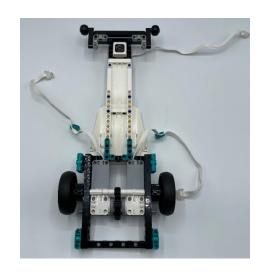


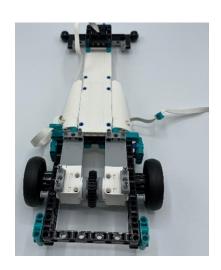


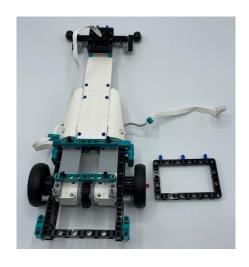


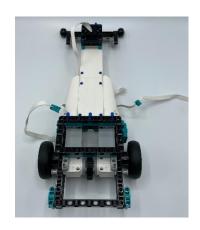




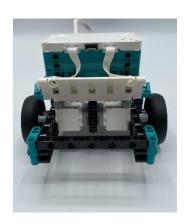




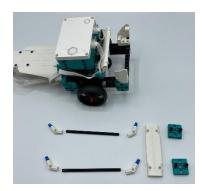


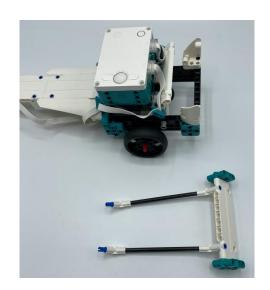




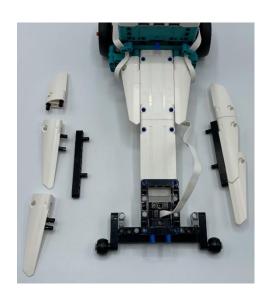




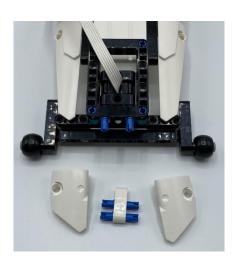


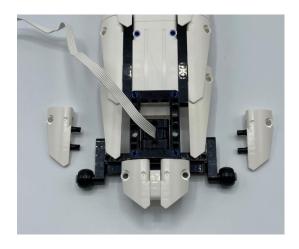






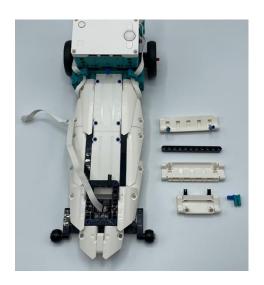










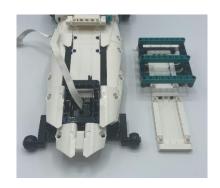


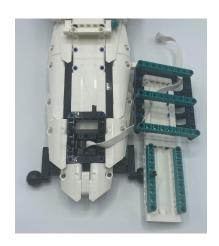












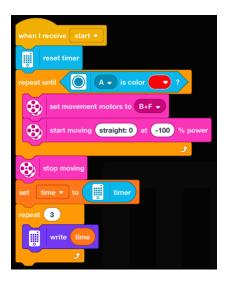


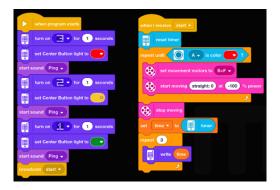




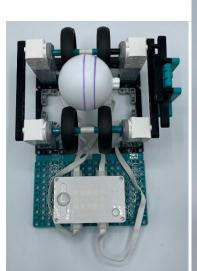




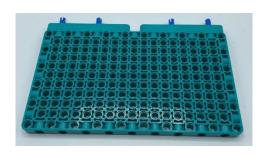


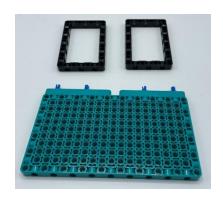


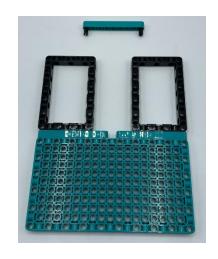
**Chapter 8: Building an Egg and Ornament Decorator.** 

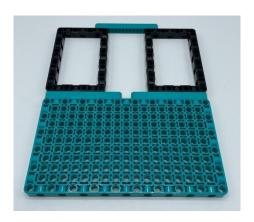


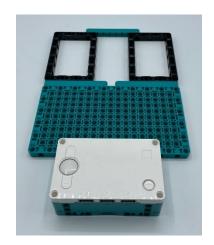


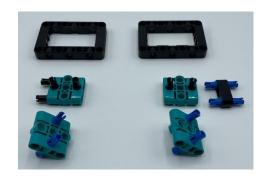
















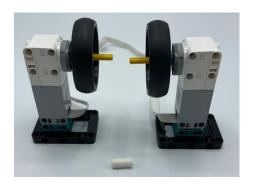




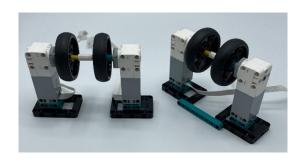




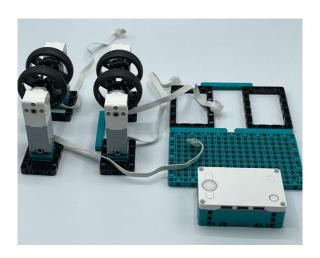


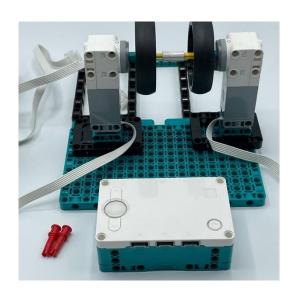


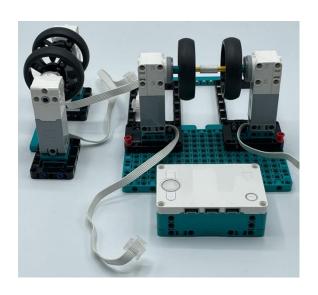


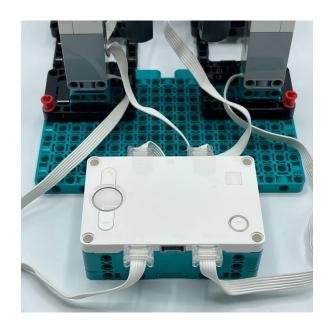


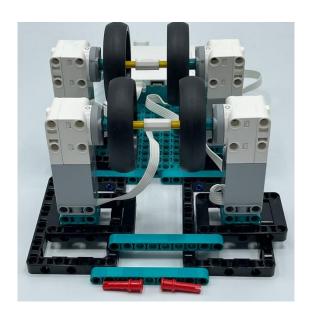


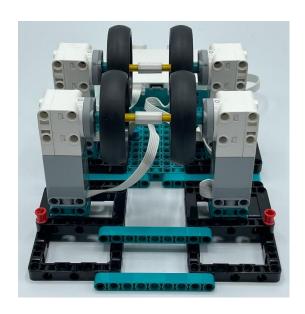










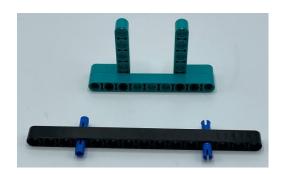






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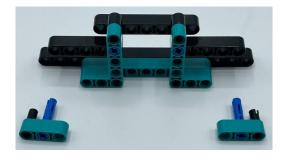










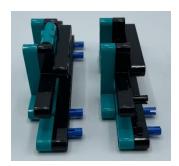




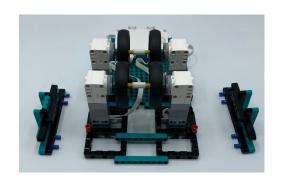


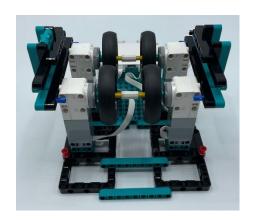


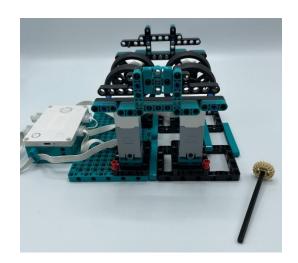






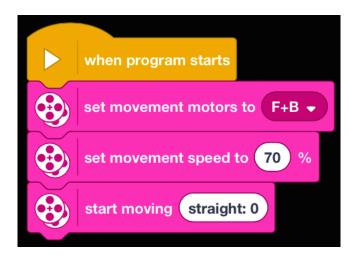


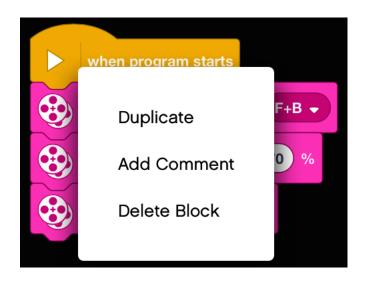




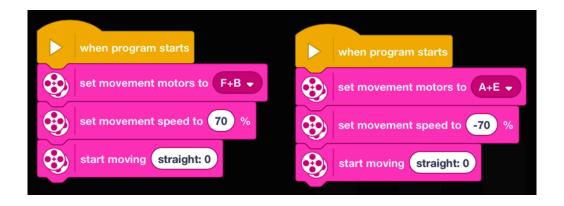






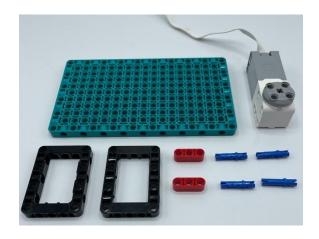


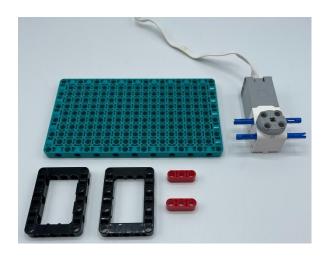


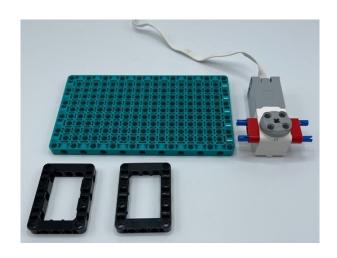


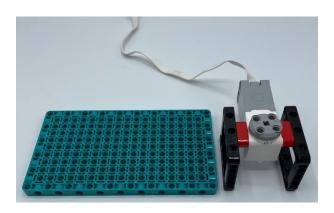
**Chapter 9: Creating Plankton from SpongeBob SquarePants – Part 1.** 

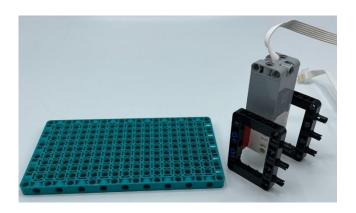


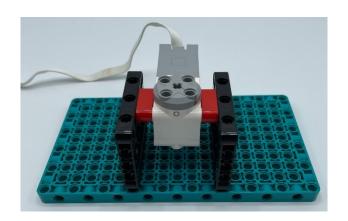




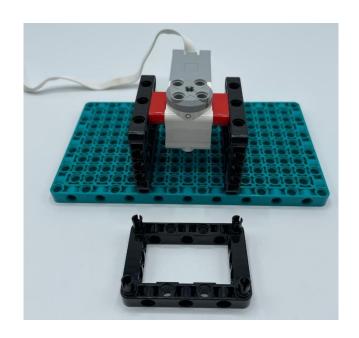


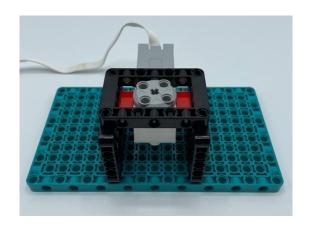


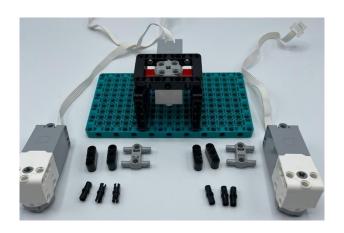


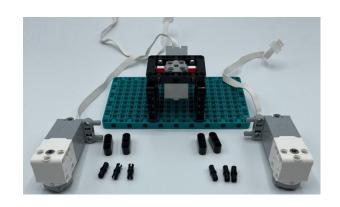


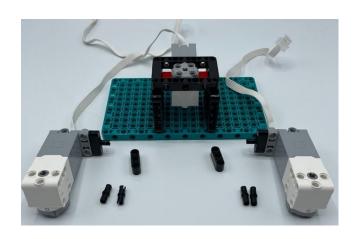


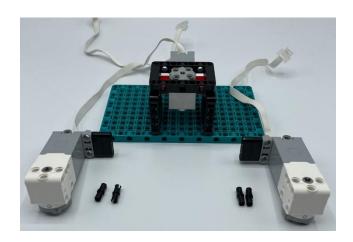


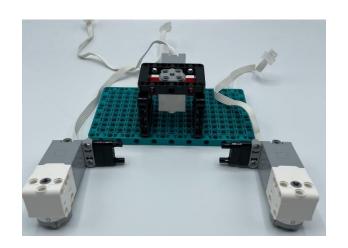




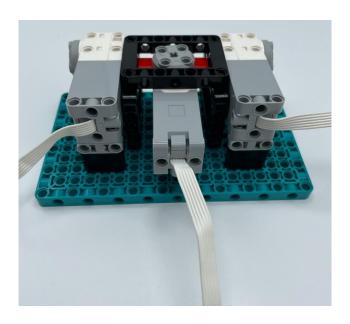


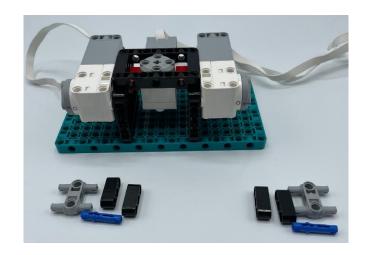


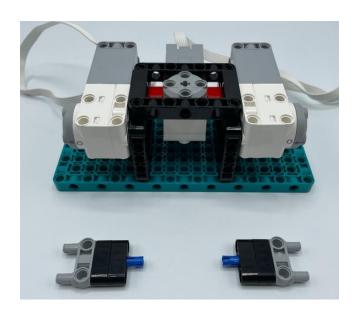


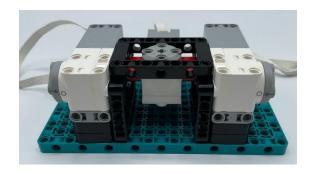


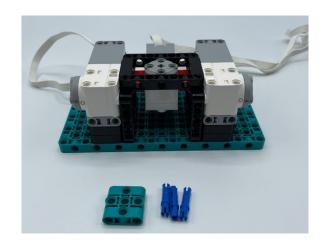


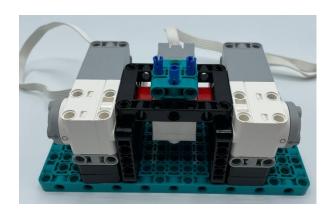


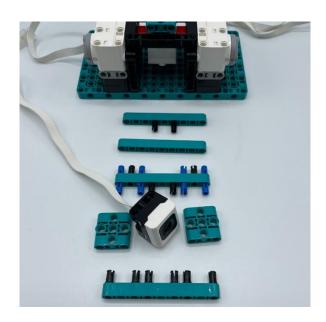


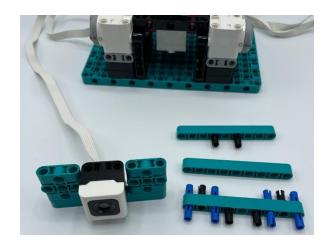


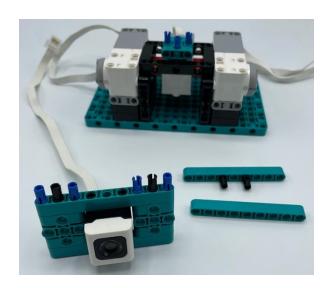


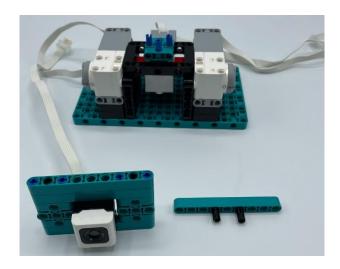


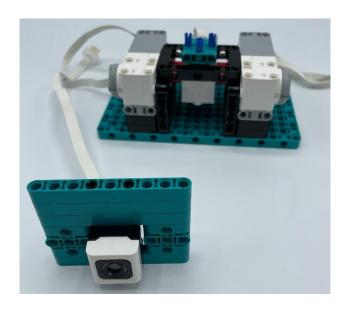


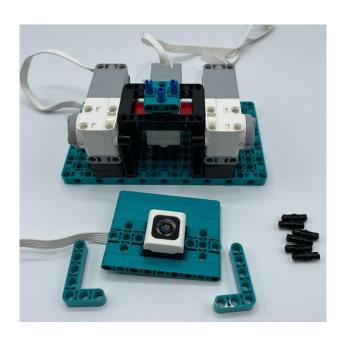




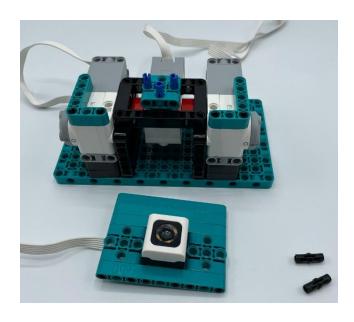


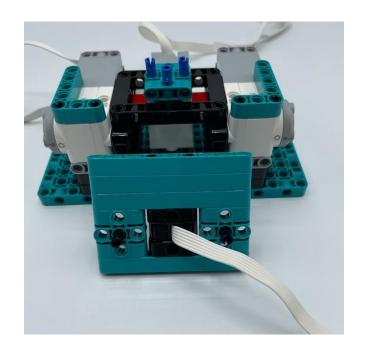


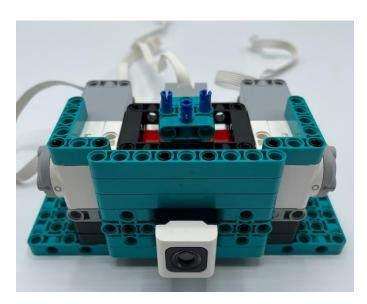


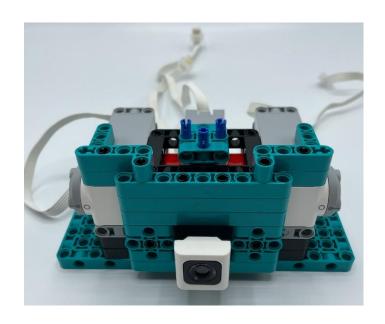












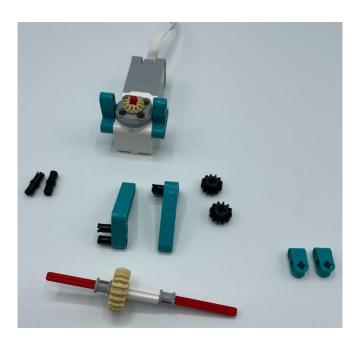




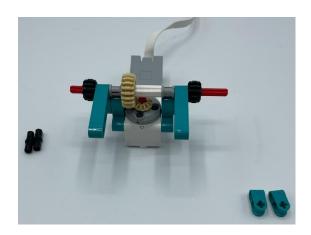




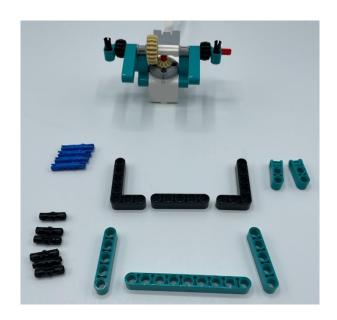


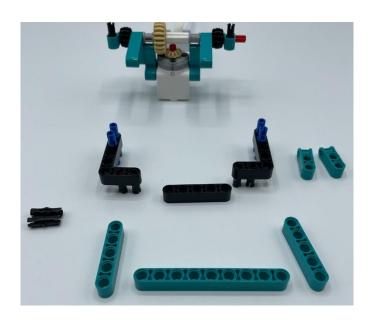




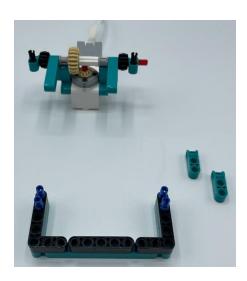


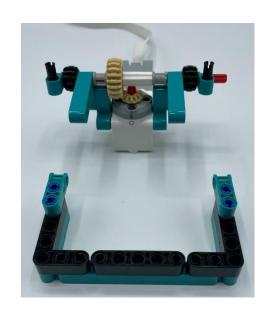




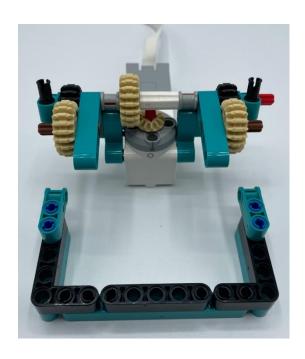


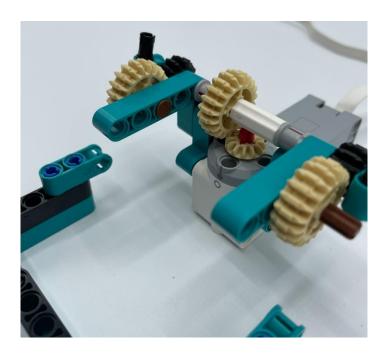


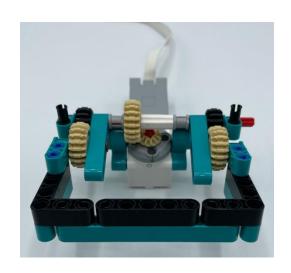


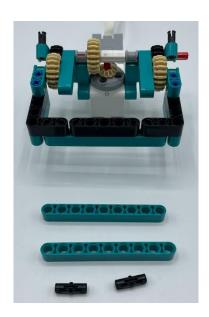










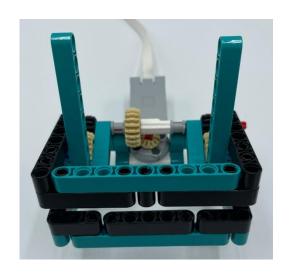


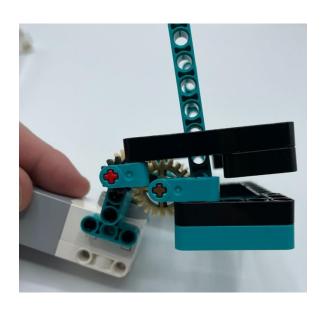










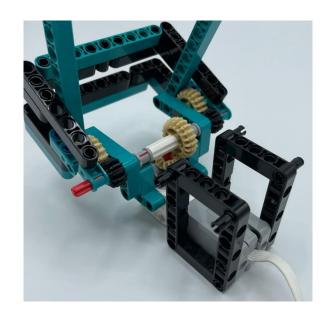






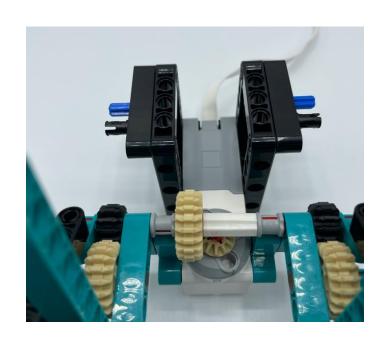


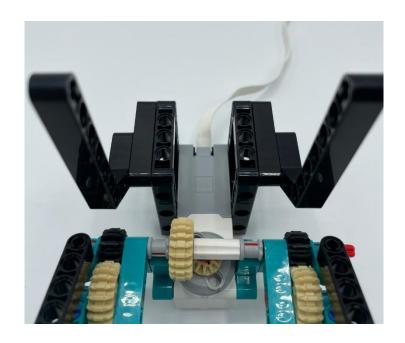








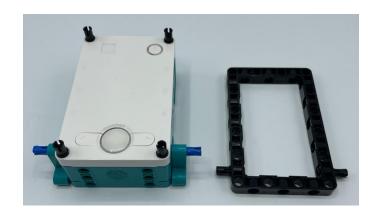


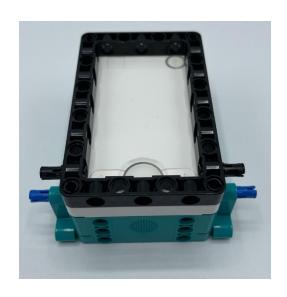


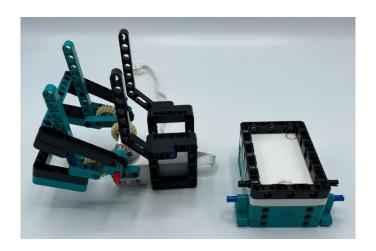




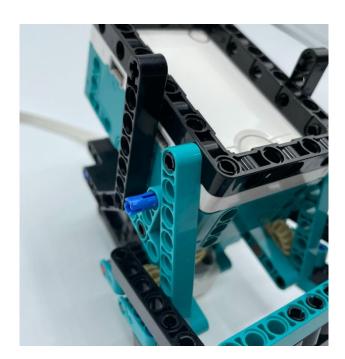




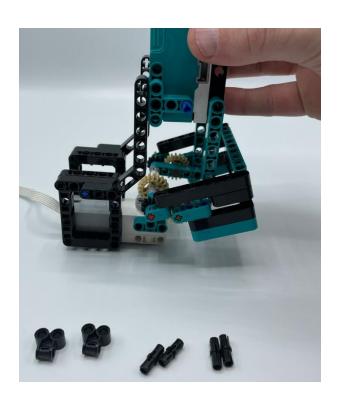


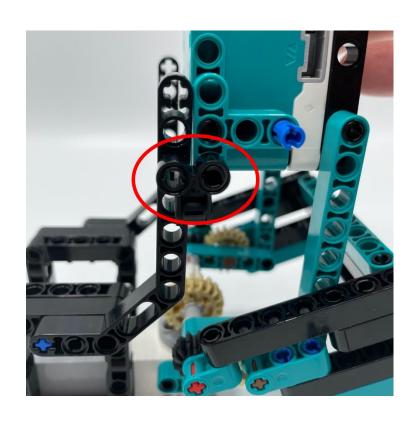


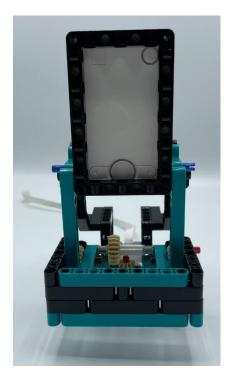










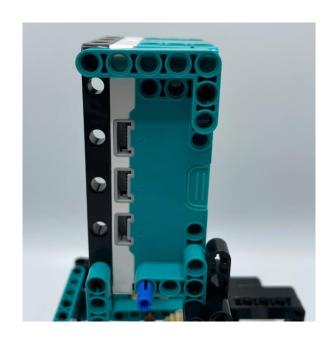






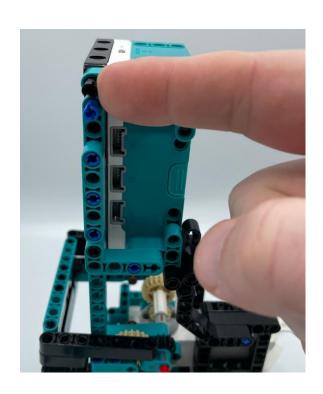
## **Chapter 10: Creating Plankton from SpongeBob SquarePants – Part 2.**



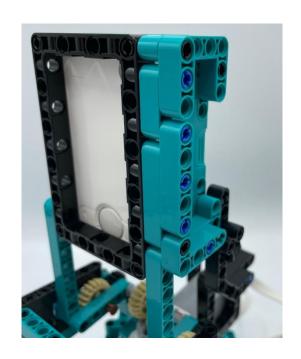






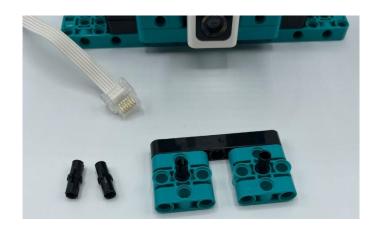


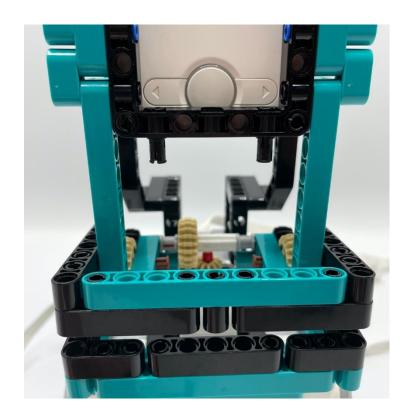






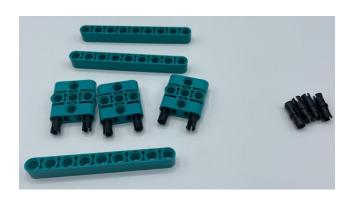


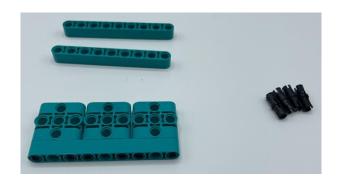


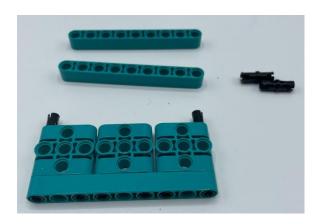


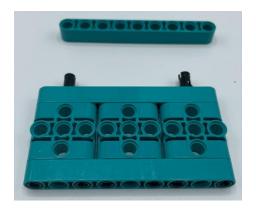


















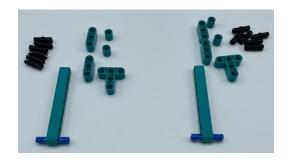


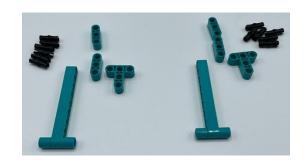




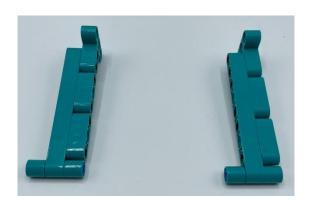


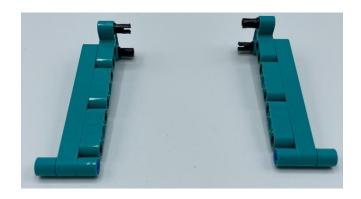








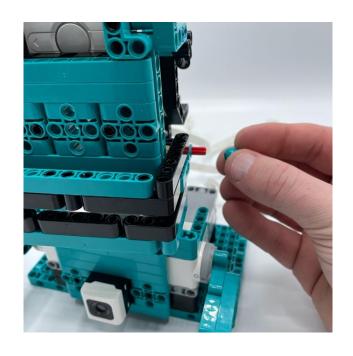






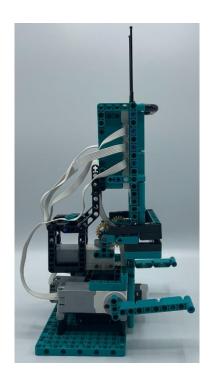




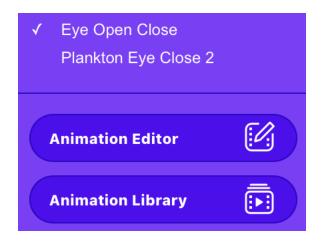


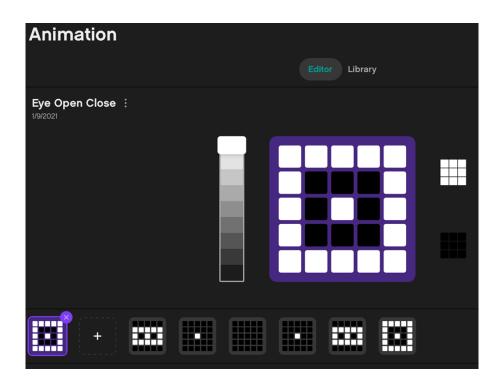


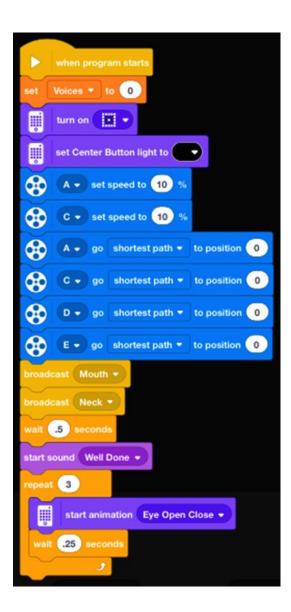


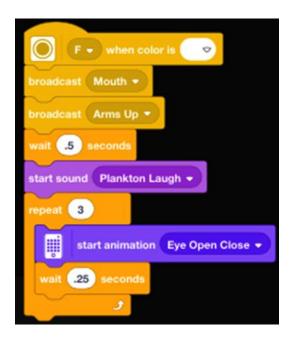












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