

POINT SCORER

Use your Smart Motor to make a sports mini game that tells you when you've scored!



Think Like an Engineer:

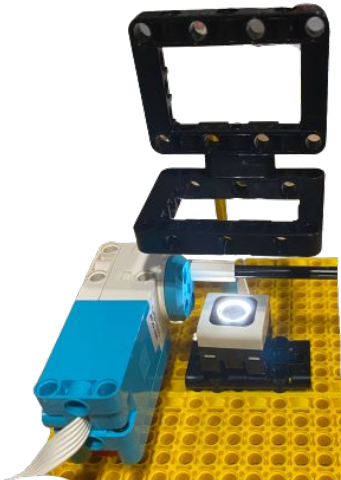
Which sensors could be used to register when a goal has been scored?



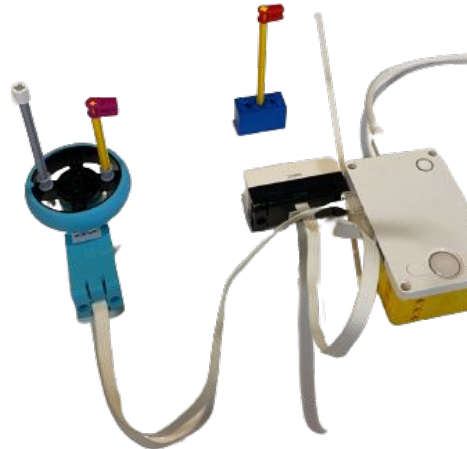
Think Like an Athlete:

Which sports involve point scoring based on the location of the players or equipment?

EXAMPLE IDEAS



A basketball hoop that gives you the ball back if you score!

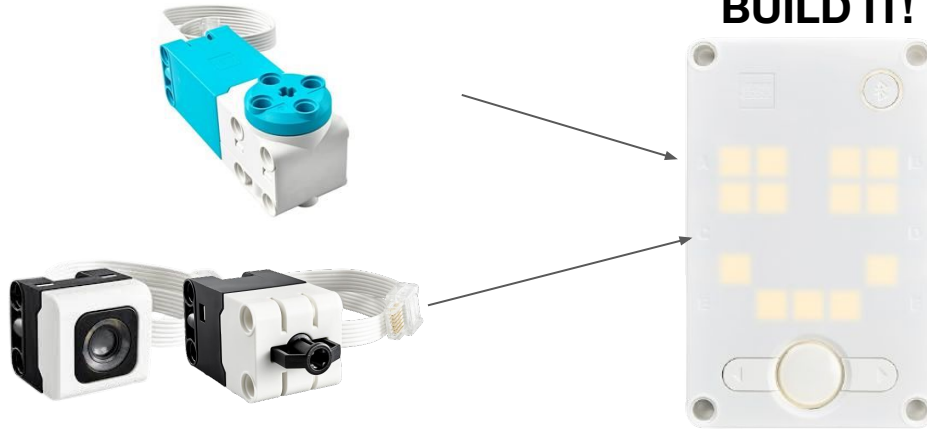


A golf game that tells you what club to use based on how far the hole is



A hockey game that tells you if you make it in!

Flip over for more details!



BUILD IT!

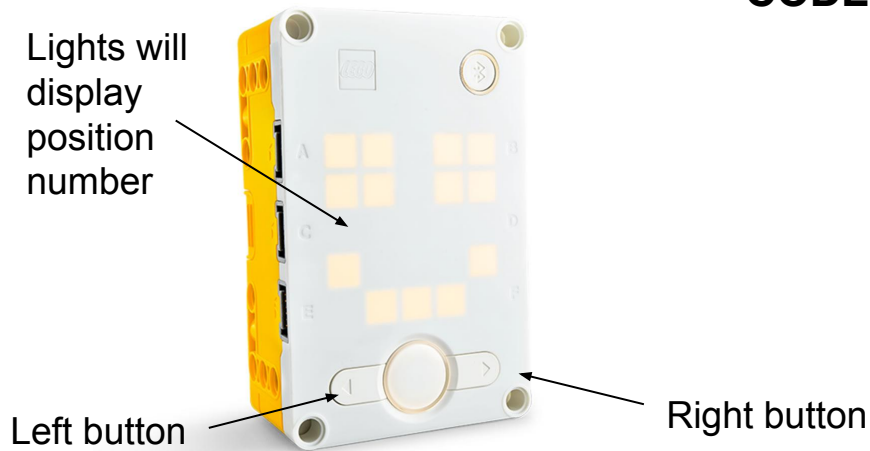
Smart motor can recognize different states using sensors and can behave differently. You can train multiple different behaviors based on the levels of the sensors. Connect the motor to Port A and your chosen sensor to Port C.



CODE IT!

Steps to Train Your Motor

1. Run the Smart Motor code
2. Move motor to your chosen position one and press the right button
3. Move motor to your chosen position two, cover light sensor, and press the right button. You can repeat this process for multiple training methods using different amounts of light!
4. Press the left button and test it!
5. Press the middle button until the middle light turns green to start training again



CHALLENGE YOURSELF

Partner up with someone else in your class and play against each other! Can you combine to make one multiplayer game?

