

STORYTELLING WITH LIGHT

Use your Smart Motor to tell a story about something that happens in nature!



Think Like an Engineer:

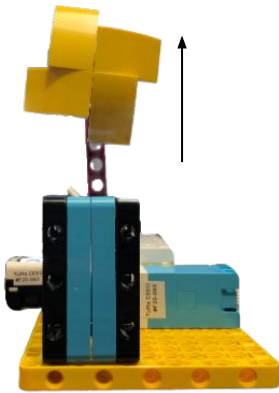
How can you translate the rotation of your motor into other types of motion?

Think Like a Biologist

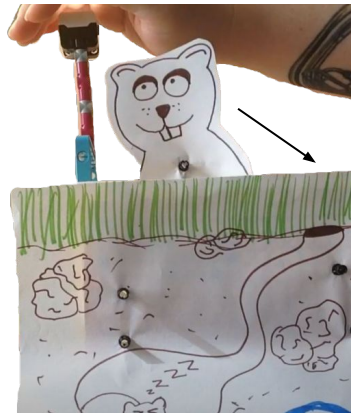


What natural processes rely on the presence of light?

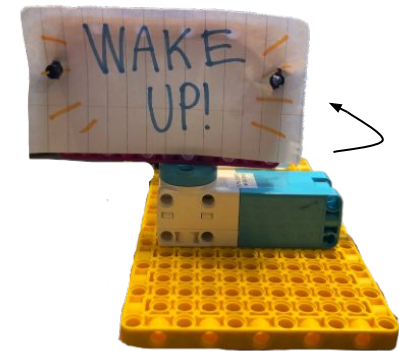
EXAMPLE IDEAS



When there's light, the flower photosynthesizes and grows



When it's cloudy, Punxsutawney Phil likes to come out of his hole



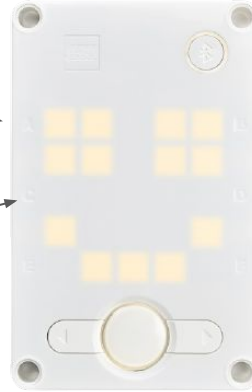
When it's light it's time to wake up and when it's dark it's time to go to bed

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 level of lightness. Connect the motor to Port A and your chosen sensor to Port C.

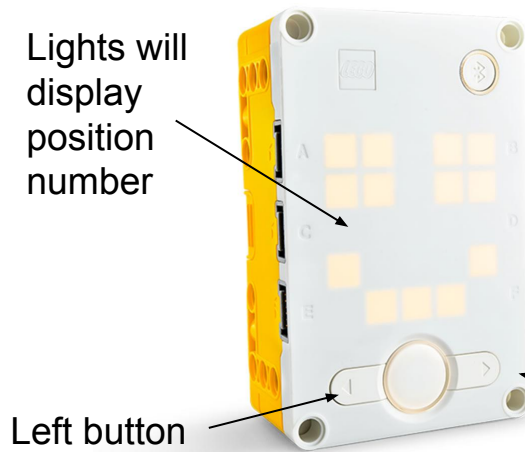


CODE IT!

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

Lights will display position number



Left button

Right button



CHALLENGE YOURSELF

Use different amounts of light to create more than two positions for your Smart Motor!