PUCK VS FRICTION

Teacher name goes here

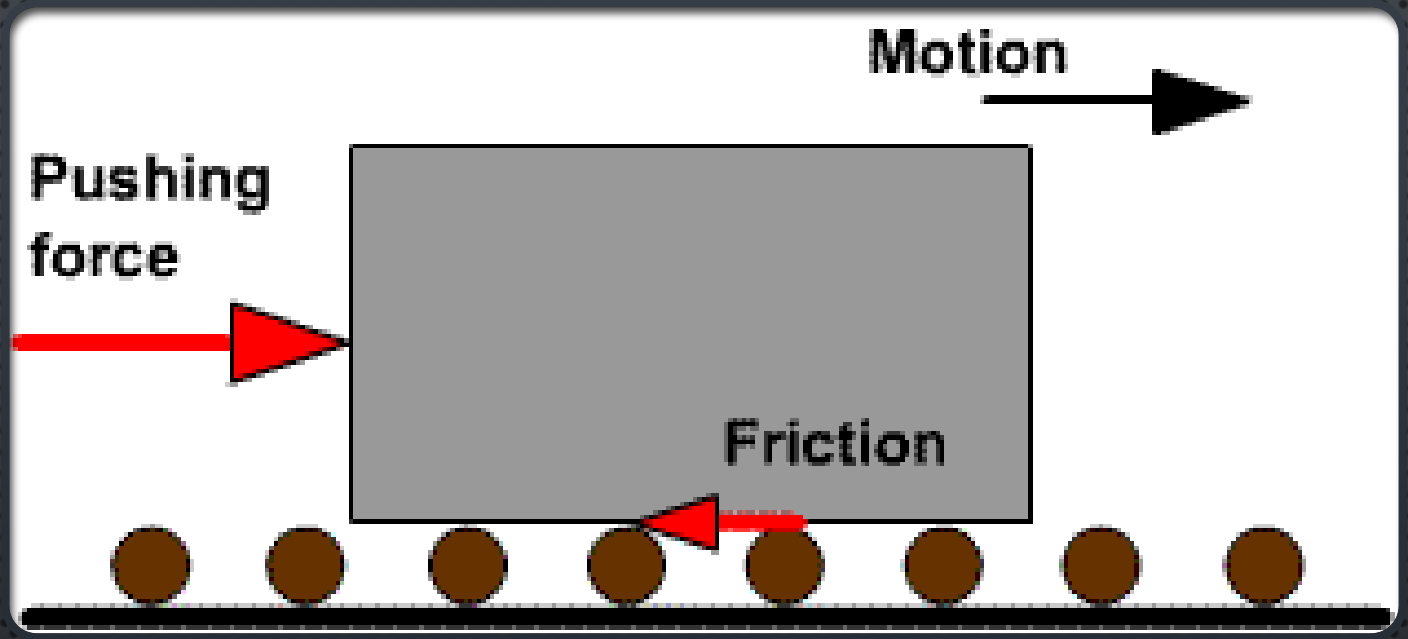
Engage

Recall: Kinetic Energy and Potential Energy

What is the difference between the two?

ENGAGE

- https://science360.gov/obj/video/89c70f56-8885-46a0-9997-82ebfa025127/science-winter-olympics-science-friction
- Does friction help in curling?
- How would friction affect other sports such as hockey?
- What kind of energy is generated after the sweeping motion is conducted?


Motion
Pushing force
Friction

EXPLORE

- Now that you have seen how friction plays a role in how things move, you will construct your own hockey puck
- You will work on teams to make a hickey puck using the provided materials
- As you build your hockey puck , keep in mind how the different materials and friction will play a role in how well your puck functions

EXPLORE

- How do hockey pucks feel?
- Are they heavy?
- Do they have a smooth or a rough surface?

EXPLAIN

- What material worked well with your hockey puck?
- What additional materials could help your hockey puck glide further?
- How did friction affect how far your hockey puck glided?
- How far did your puck glide?

ELABORATE

- Why do you think engineers have to take friction into consideration when constructing sports equipment?
- Would sports equipment work just as fine if friction were not considered?
- What other things besides fiction do engineers have to make when constructing sports equipment?

EVALUATE

- Complete the evaluation quiz on your own
- Turn it in when you are finished