PLTW | Launch

Launch Log
Pushes and Pulls

Name:

_____

_____

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Activity 1: Everyday Pushes and Pulls

Fill in the missing words:

A force is a _____ or a _____.

push   **pull**

Draw a picture in each box.

Push	Pull

Activity 2: Pushes and Pulls Centers

Ball and String:

How did you use a push and a pull to move the ball?

Push

Pull

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- -

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Blocks

On which surface did you need a stronger push to move the blocks? Circle the answer.

The blocks needed a stronger push on the smooth surface.	**The blocks needed a stronger push on the rough surface.**

Draw a picture that shows the block that was the easiest to move. Include both the block and the surface.

Draw a picture that shows the block that was the most difficult to move. Include both the block and the surface.
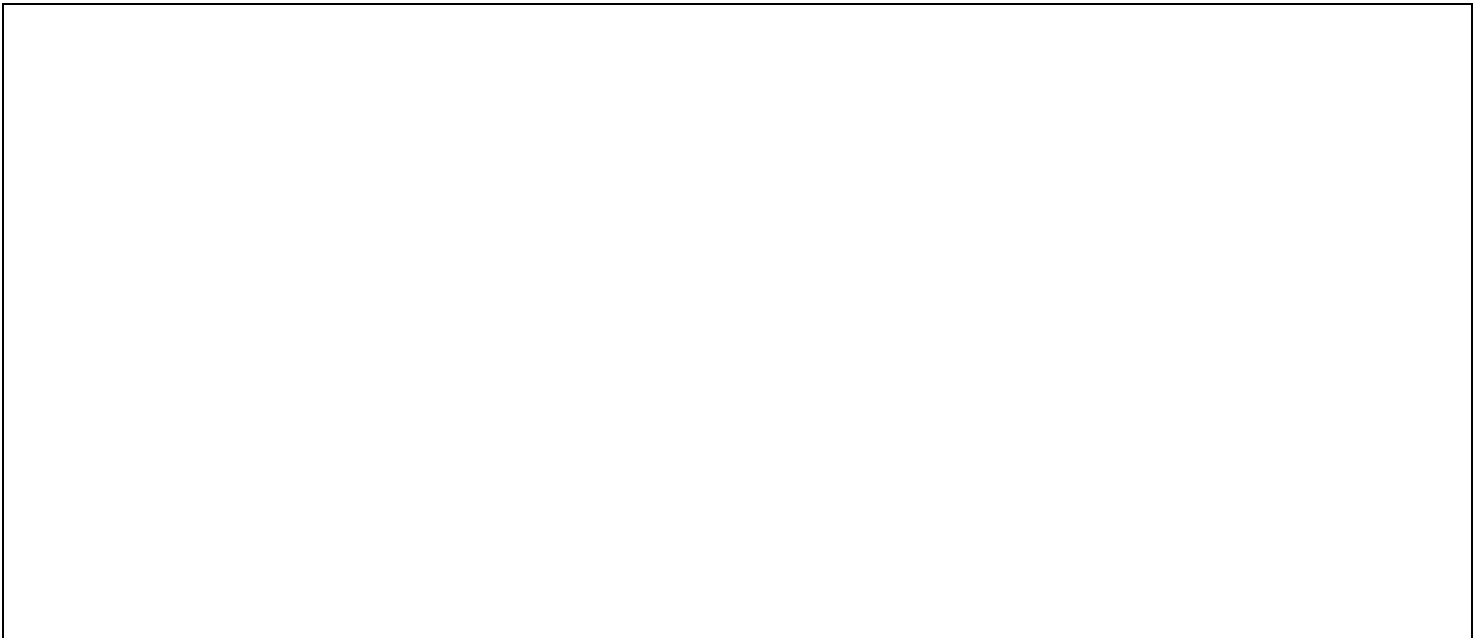
Activity 3: When Pushes and Pulls Collide

Draw what you think the blocks shown below will look like after the push.

Before
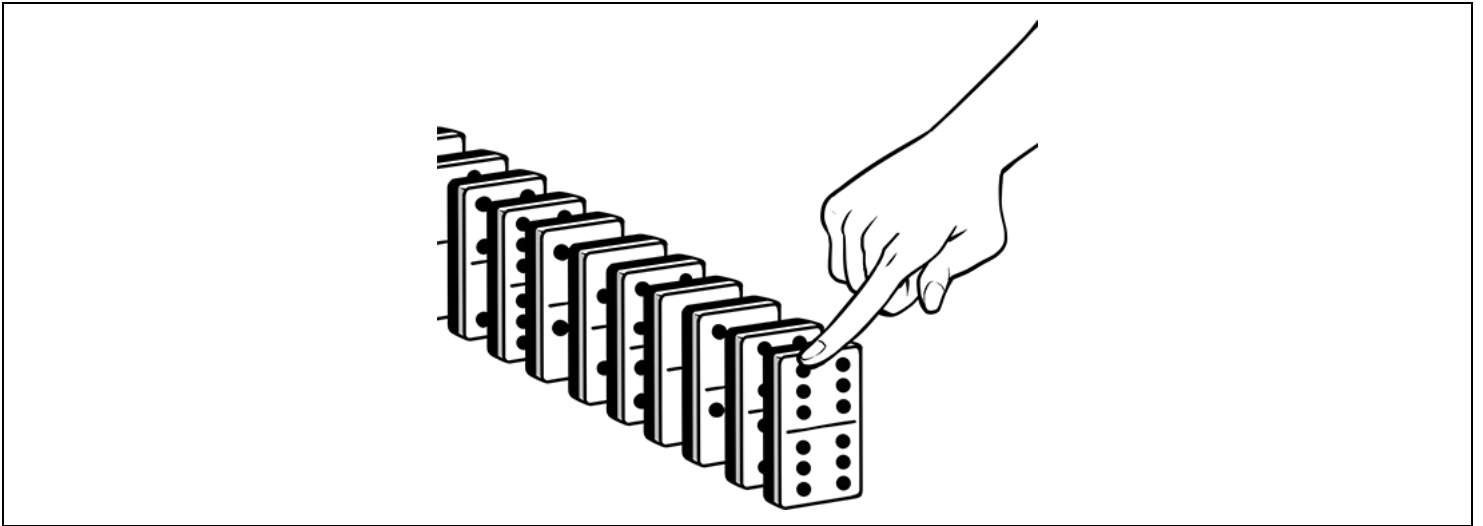
After

Project: Changing Pushes and Pulls

Would you use a push or a pull to move the wagon up the hill?

push   pull

Explain your choice.

_____

_____

_____

_____

_____

_____

Problem: Push and Pull Design

Design Process
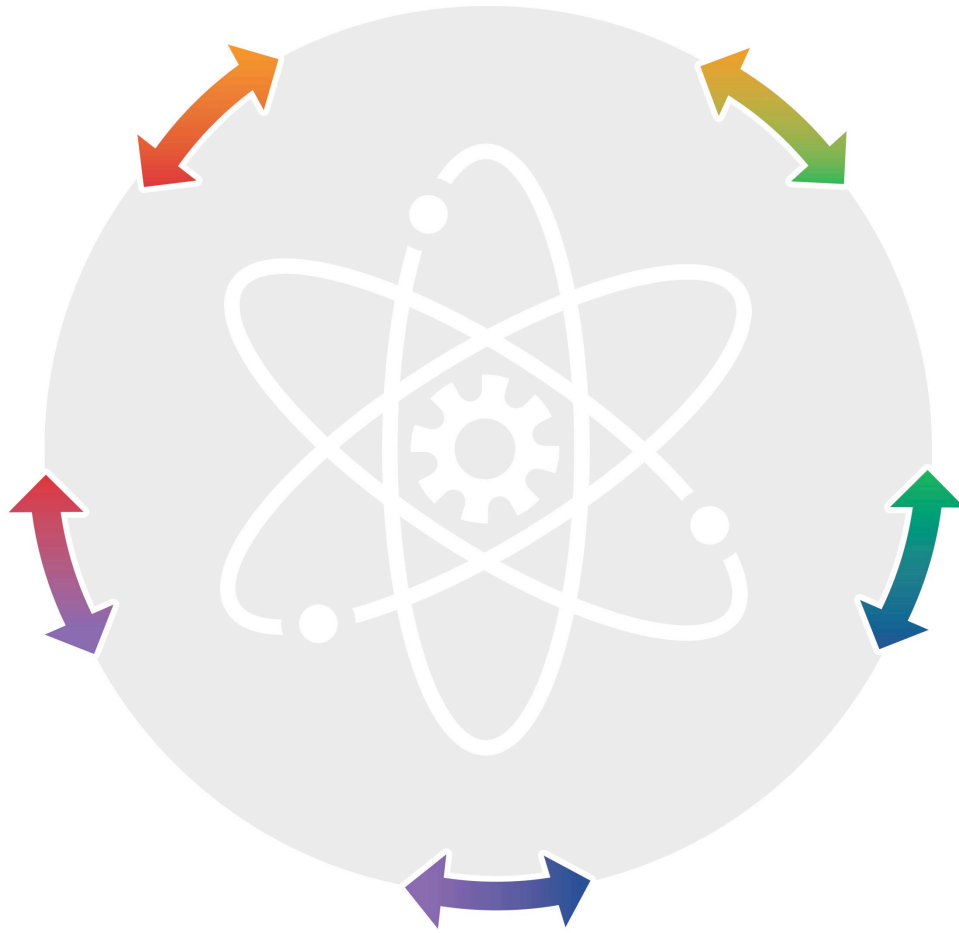
Ask – What is the problem?

Explore – How can you try to solve the problem? Draw your idea below.

_____

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Model – Draw or insert a picture of your final design.

Describe your model.

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Evaluate – Test your model. How well did it solve the problem?

Circle the face that best answers the question.

_____

_____

_____

_____

Explain – Draw a picture or describe how you used a push or a pull to solve the problem.

Push

Pull

What would you like to change about your model?

_____

_____
_____

_____
_____

_____