Forces of Motion Unit

By: Misty Hall

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Forces of motion unit daily plan and materials needed.

Day 1: Materials: *Pictures of objects going in different directions. *Vocabulary word cards. *Direction of movement graph.

Show pictures of roller coaster, train, swing, signs. Talk about what direction each object is going. Make a chart with each vocabulary word draw the word next to it. Include words straight, zigzag, circular, curved, back and forth. Brainstorm other objects that move and put them into a graph of things that go straight, zigzag, circular, curved, and back and forth.

Day 2: Materials: *Toy cars *Road paper

Bring some toy cars, put students in small groups and give them a car and paper with road on it. Have the students give the car a push so that it rolls across the page. Talk about if the car went straight on the road or if it went off the road. Then have students make paper airplanes. Have them throw the paper airplanes and talk about what direction they went. Talk about if they can move by themselves or does someone or something have to touch them. After we have done both the cars and the airplanes do a shared writing. Have the students share what their cars did and what their airplanes did. Make sure to include those vocabulary words from day one about what directions they went in the writing.

Day 3: Materials: *Book Duck in the Muck

*Vocabulary word cards push and pull. *Push and Pull readers theater. *Book Push and Pull

*Venn diagram for push and pull.

Read Duck in the Muck. Have students describe what the word push means. Tell them they have to use words they cannot show you. Add the word push to the vocabulary chart. Do the same thing with the word pull. Do the push and pull readers theater about the book Push and Pull. Then read the book Push and pull Rookie Read About Science. Make a venn diagram push on one side and pull on the other side with things that are both push and pull.

Day 4: Materials: *Book Forces Make Things Move.

*Class book page on how an object moves. *Directions Assessment

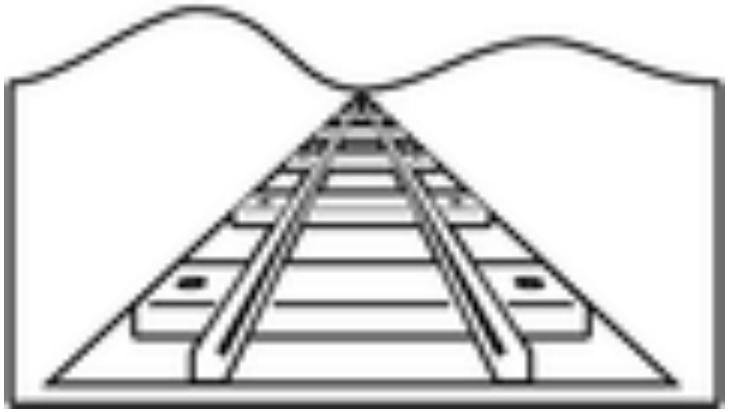
Read Forces Make Things Move. (May have to paraphrase book because it is quite long and has much more information then needed.) Then have the students use the class book page. They choose one thing that moves and tell what it is and how it moves. Then do the worksheet where they match the picture with the vocabulary words.

Vocabulary Word Cards

straight	zigzag	curved
circular	back and forth	push
pull		

Circular

Straight



Back and Forth

Curved

Zigzag

Name _____

Straight	Zigzag	Circular	Curved	Back and forth

Push and Pull

Reader 1: Move it!

Reader 2: All objects need a push

Reader 3: Or a pull

Reader 4: to start moving.

Reader 5: Elevator buttons need a push.

Reader 3: to make the elevator

Reader 4: go up or down.

Reader 1: A swing needs a push

Reader 5: to fly high

Reader 2: in the sky.

Reader 1: Your heart

All: pushes

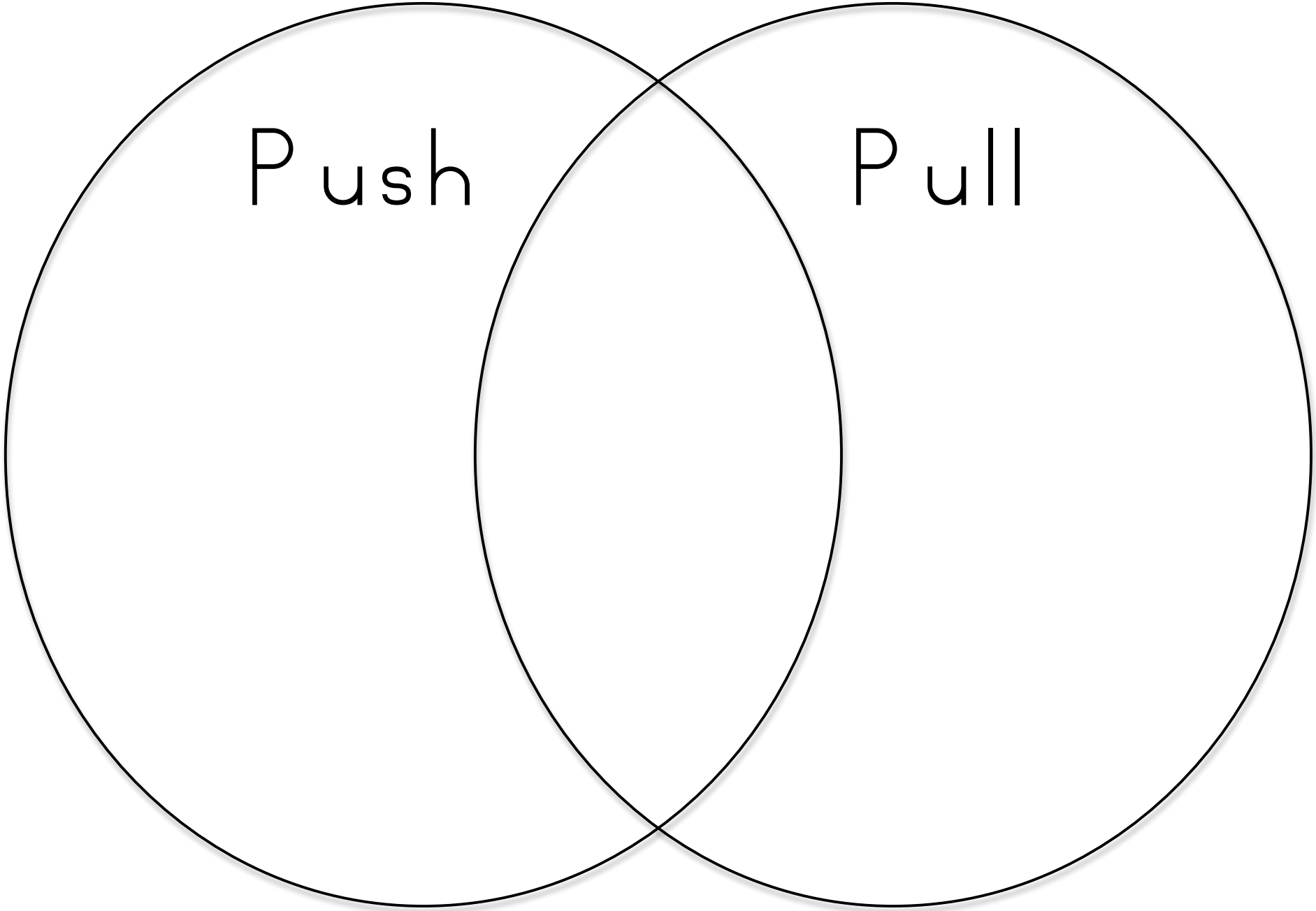
Reader 3: blood

Reader 5: through your body.

Reader 2: This pushing

Reader 4: Keeps you alive

All: To know more read *Push and Pull* by Patricia J. Murphy


Push
Pull

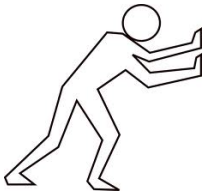
Name _____

_____ can move by: _____

_____.

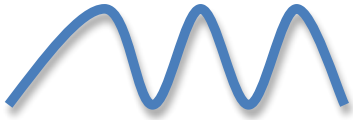
Directions Assessment

Straight



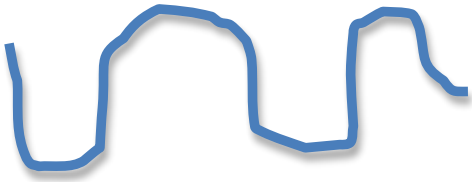
Zigzag

Circular



Curved

Back and Forth



Push

Pull