Forces and Simple Machines

Questions to Answer

Answer the question by choosing the correct answer from the word box at the end of the activity and writing it on the line.

1. Motion is just a change in what?

_____

2. What is the difference between where something started and where something ended up when it moved called?

_____ it moved

3. What do we call the distance an object moves in a certain amount of time?

_____

4. What is the name we give to which way an object is going?

_____

5. In science, what is a push or a pull?

_____

6. Who studied the way things work and discovered three laws related to motion?

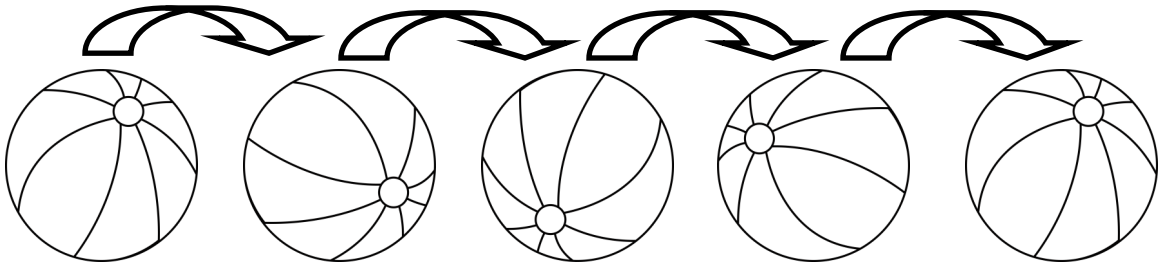
Sir Isaac _____

speed	Newton	distance
force	position	direction

Imagine It

See the two boxes below. In the top box, draw a picture of something being affected by gravity, like something falling out of a tree, out of a building, or any other picture you can think of that shows gravity. In the bottom box, circle the answer to the question.

Look at the ball rolling across the floor. It will not keep rolling forever even if nothing gets in the way. What will cause it to stop?

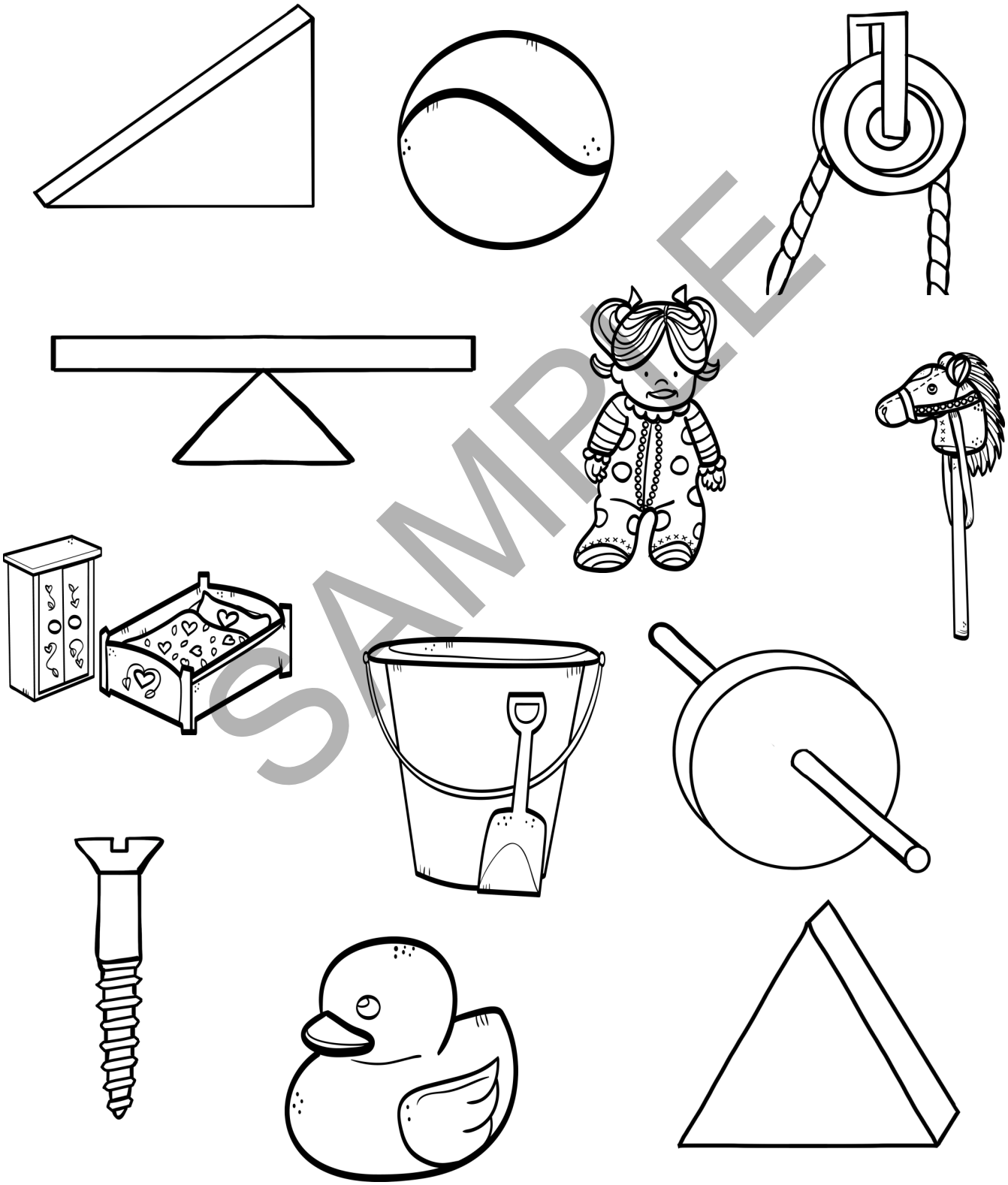


Friction The sun The moon

Forces and Simple Machines

What Are the Simple Machines?

Circle the six simple machines from the pictures below.



Forces and Simple Machines

Scrambled Machines

See if you can unscramble the words that tell us about different simple machines. There is a clue for each simple machine to unscramble. If you need more help, all the words you need are listed in the word bank at the end of the activity.

1. This simple machine is a ramp. It could let you push a heavy box up into a truck. (2 words)

c l i i d e n n e p a l n

_____ _____

2. This simple machine lets you turn downward force into upward force, like when you use a seesaw.

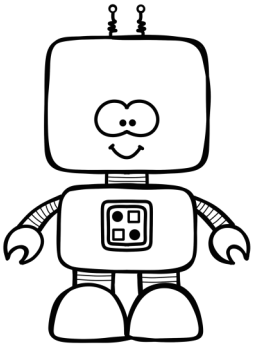
r v e e l

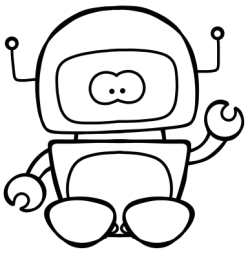
_____

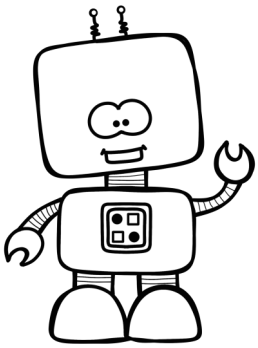
3. This simple machine is a rope or chain wrapped around a wheel. You could use it to raise a flag to the top of a pole.

l e y p l u

_____







Scrambled Machines (continued)

4. This simple machine is a special kind of inclined plane. It is an inclined plane that wraps around and around something.

w e s r c

_____

5. This is a simple machine that is something we see everyday on things such as cars, bicycles, or some toys.

e l e h w and e x a l

_____ and _____

6. This is a simple machine whose job is to split things apart. If you push down on it and push it into something else, this machine can split the object apart.

d e g w e

_____

wedge	screw	inclined plane
pulley	wheel and axle	lever