



100 minutes of science work

2nd grade Science Week 1-2 Day 1 :

Please choose 2 Science activity to complete. Check the items your child completes.

I Can Statements:

I can conduct an experiment to see the effects of force on an object.

I can read a non-fiction passage about force and respond to the questions

 Activity 1: Have the students push a ball on 3 different surfaces and time how long the ball rolled for on each surface. (example- kitchen floor, carpet, concrete outside)

Types of surface	How many seconds did it roll?	Described what happened?
Surface 1		
Surface 2		
Surface 3		

_____ **Activity 2:** Read the passage “What are forces” and on a piece of paper answer these questions:

1. How can force be described?
2. How can forces change things?
3. What does gravity do, and what would happen without it?

_____ **Activity 3:** On a sheet of paper, create a poster of the different types of forces mentioned in the book. (Kinds of forces, feeling friction, paired forces, everyday forces)

_____ **Activity 4:** Have the students go outside and have a jumping contest and see who jumped the highest. On a sheet of paper have them write down why they think that happened.

Science Standards 2.P.4: The student will demonstrate an understanding of the effects of pushes, pulls, and friction on the motion of objects



2nd grade Science Week 1-2 Day 2:

Second Grade Science: Please choose 2 Science activity to complete. Check the items your child completes.

I Can Statements:

I can conduct an experiment to see the effects of force on an object.

I can read a non-fiction passage about force and respond to the questions

_____ **Activity 1:** Have the students push a toy car using a different amount of force each time.

	How many seconds did it roll?	Described what happened?
Time 1		
Time 2		
Time 3		

_____ **Activity 2:** Read the passage “Energy in motion” and on a piece of paper answer these questions:

1. Where can energy be found?
2. What is kinetic energy?
3. What is stored energy?
4. If a pitcher is holding a baseball in his glove, what kind of energy does the baseball have?

For today use the passage “Energy in motion”

_____ **Activity 3:** On a sheet of paper, create a poster about energy.

_____ **Activity 4:** Write a paper about your favorite sport. Think about the different types of energy that will be used in the sport you have chosen; use words force, motion, friction, energy, kinetic energy, and stored energy, and gravity.

Science Standards 2.P.4: The student will demonstrate an understanding of the effects of pushes, pulls, and friction on the motion of objects



2nd grade Science Week 1-2 Day 3:

Second Grade Science: Please choose 2 Science activity to complete. Check the items your child completes.

I Can Statements:

I can demonstrate how force and motion work together.

_____ **Activity 1:** Have the students watch the video <https://www.youtube.com/watch?v=rfeVINL7d9U>.

After watching the video have the students write down 3 new facts they learned on a piece of paper.

_____ **Activity 2:** Have the students read the passage Faster and Further: Moving and Force and answer these questions on a sheet of paper.

1. What is matter?
2. What is the name of the force that happens when two objects slide against each other?
3. According to the passage what does further mean?

_____ **Activity 3:** Using the book Faster and Farther: Moving with Force; prepare a presentation explaining Newton's three laws of motion. Give examples of how the laws of motion are at work in your life.

_____ **Activity 4:** Research Sir Isaac Newton. Make a timeline of his life that includes at least five important events.

Science Standards 2.P.4: The student will demonstrate an understanding of the effects of pushes, pulls, and friction on the motion of objects



2nd grade Science Week 1-2 Day 4

Second Grade Science Activities: Please choose 2 Science activity to complete. Check the item your child completes.

I Can Statements:

- I can demonstrate an understanding of force and motion
- I can conduct experiments to show my knowledge of force and motion

_____ **Activity 1:** Have the students read the passage “Working for the Win”. After reading the passage have them answer these questions on a sheet of paper.

1. What does transform mean, and how did Michael Phelps’s meals transform?
2. What is kinetic energy?
3. What is an example during a baseball game when kinetic energy becomes potential/stored energy?

_____ **Activity 2:** Have the students create a ramp using cardboard pieces from around the house. (pizza boxes, cereal boxes). Once they create the ramp have them roll anything down it and have them describe what happens to the object when they roll it down the ramp on a sheet of paper.

_____ **Activity 3:** Use the book *Working for the Win*- Use a Venn diagram to compare and contrast tennis and hockey. Write about how athletes in both sports use elastic energy and kinetic energy.

_____ **Activity 4:** Using the book “Working for the Win” Make a poster explaining the two TS of energy: transfer and transform. Then write about how these two Ts can be seen in sports.

Science Standards 2.P.4: The student will demonstrate an understanding of the effects of pushes, pulls, and friction on the motion of objects



2nd grade Science Week 1-2 Day 5

Second Grade Science Activities: Please choose 2 Science activity to complete. Check the item your child completes.

I Can Statements:

- I can demonstrate an understanding of force and motion
- I can conduct experiments to show my knowledge of force and motion

_____ **Activity 1:** Have the students read the passage “Gear for the Game”. After reading the passage have them answer these questions on a sheet of paper.

1. What are some examples of sports gear?
2. What are two reasons that athletes wear gear?
3. Why is it bad for bats to vibrate?
4. What is a sweet spot, and how does it help a baseball player?

_____ **Activity 2:** Have the students do any activity outside; (play baseball, kick a soccer ball, throw a football,) and draw a picture of the activity and write the forces that they are using.

_____ **Activity 3:** Using the book “Gear for the Game” choose one type of sports gear from the book. Research to learn how the gear has been improved. Create a poster showing what you learned.

_____ **Activity 4:** Using the book “Gear for the Game” think of an activity you like to do. Create or improve the gear you need to do the activity, based on what you know about forces.

Science Standards 2.P.4: The student will demonstrate an understanding of the effects of pushes, pulls, and friction on the motion of objects

