## MOTION AND SIMPLE MACHINES




## Motion

 $=\underset{\text { Machines }}{\text { and Simple }}=$
## LEVEL 3-6 STUDENT JOURNAL



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This student journal accompanies The Good and the Beautiful Motion and Simple Machines science unit. It contains all the worksheets and journal pages that are needed to complete the unit. Each student will need his or her own copy of the science journal.

Have each student take his or her time to create highquality work as the activities and worksheets are completed. Students may enjoy looking back on their past discoveries when they've finished.


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## Isaac Newton

Directions: Cut and paste the quote from Isaac Newton (found on the bottom of the page) in the space provided below.


Directions: Draw or write two things you learned or loved about Isaac Newton from the video.


## Newton's First Law

An object in motion stays in $\qquad$ ; an $\qquad$ at rest
stays at $\qquad$ until $\qquad$ upon by a $\qquad$ .

$\underbrace{\text { Word Bank }}$| rest |
| :--- | :--- | :--- |
| acted |$\quad$| force |
| :--- |
| motion |$\quad$ object

## ACTIVITY \#2

Write or draw what happened when the penny was flicked:

## Speed \& Velocity



How long does it take a ball to roll 4 feet?

Time: $\qquad$


## DEFINITION MATCH

Match the term to the correct definition.
the rate at which an object travels in a certain amount of time
the speed and direction of an object
any change in direction and/or speed, either faster or slower
the speed of an object at a specific instant in time
how much ground has been covered during the movement of an object



Directions: Cut out the words at the bottom of the page. Place and then glue them in the correct order to create the definition for Newton's Second Law.

## Gravity



## DROPPING DIFFERENT BALLS EXPERIMENT



Gravity is a of attraction between masses.


## Newton's Third Law

Directions: Find the hidden message by coloring all the letters in the puzzle below in red and all the numbers blue. Then read the hidden message in red.

| 1 | 8 | W | H | E | N | 6 | 3 | 5 | 4 | A | N | 2 | 1 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 6 | O | B | J | E | C | T | 2 | 6 | 9 | P | U | S | H |
| E | S | 8 | 2 | 6 | 7 | T | O | W | A | R | D | 1 | 3 | 5 |
| A | N | O | T | H | E | R | 9 | 1 | 5 | 3 | O | B | J | E |
| C | T | 8 | 9 | 1 | T | H | E | 2 | 9 | 1 | 8 | 3 | O | B |
| J | E | C | T | 2 | 5 | 1 | 8 | 7 | B | E | I | N | G | 6 |
| 8 | 2 | 7 | A | C | T | E | D | 1 | 9 | 5 | 2 | 4 | 7 | 9 |
| 2 | U | P | O | N | 1 | 8 | 7 | P | U | S | H | E | S | 5 |
| 2 | 8 | 9 | 5 | 4 | 2 | 8 | 6 | 4 | B | A | C | K | 7 | 3 |
| 1 | 3 | 2 | W | I | T | H | 5 | 6 | 4 | 8 | 7 | E | Q | U |
| A | L | 1 | 5 | 7 | 6 | 9 | 3 | F | O | R | C | E | 8 | 1 |

Examples of Newton's Third Law:


## I SPY• WEDGES AND LEVERS

Circle all the wedges in red and all the levers in blue.
NOTE: Four items can be circled for both types of simple machine.


Draw or list the simple levers you see around you.


