Developing Young Scientists!

I Can Be A Scientist Exploring Force and Motion!

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Hello Science Friends,
I am so excited to be able to share this unit with you. I have needed this unit for such a long time. I have searched and could not find what I wanted or needed so I created my own. I had so much fun working through this unit with my class. What I like about the unit is that there are options. As with any Science unit we do in class we always notebook. So with that I mind, I pick and choose what I will put in my notebook from the download options in the unit. I may even order them according to my needs so this unit reflects a few different versions of the same thing to allow for some flexibility. A big part of this unit is in field investigations which we are required to do 80% of the time. This download has plenty to support hands-on field investigations that are quick, easy and fun. This unit includes Vocabulary Posters that I print in color and hang on our Science Wall in our Science Center. I also print a copy to keep available for the children to take to their tables when notebooking. I am super excited about the Conceptual Emergent Science Readers in this unit and I always have to include Conceptual Teacher Big Books!

Enduring Understandings:

- ✓ The student understands that magnets attract some materials but not others.
- ✓ The student can describe where an object is and how it moves.

Concept-Magnetic
Key Vocabulary

- ✓ Attract
- ✓ Magnetic
- ✓ Non-magnetic

Concept-Position
Key Vocabulary

- ✓ Above
- ✓ Below
- ✓ Behind
- ✓ In Front Of
- ✓ Beside
- ✓ Inside
- ✓ Outside
- ✓ Between
- ✓ Right
- ✓ Left

Concept-Motion
Key Vocabulary

- ✓ Move
- ✓ Straight Line
- ✓ Zigzag
- ✓ Up and Down
- ✓ Back and forth
- ✓ Round and Round
- ✓ Fast and Slow

The student knows that energy, force, and motion are related and are a part of their everyday life. The student is expected to:

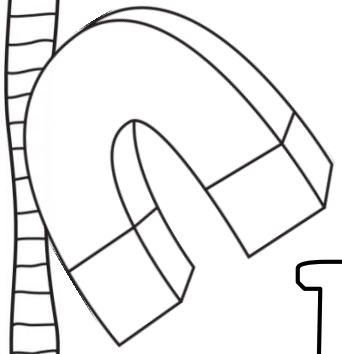
- ✓ explore interactions between magnets and various materials;
- ✓ observe and describe the location of an object in relation to another such as above, below, behind, in front of, and beside;
- ✓ observe and describe the ways that objects can move such as in a straight line, zigzag, up and down, back and forth, round and round, and fast and slow.

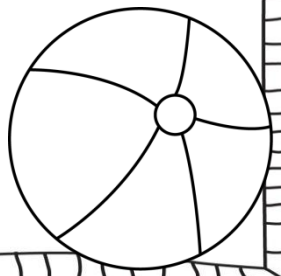
Table of Contents: *13 Different Hands-On Independent Field and Indoor Investigations with Recording Pages/2 Conceptual Big Books/3 Conceptual Emergent Readers and so much more! Options for building your own unique journals/notebooks to fit your classroom needs!*

2 Versions of My Force and Motion Notebook/Journal backline printables
Magnets Vocabulary Poster colored printable
Magnet Safety Rules Poster colored printable
2 Versions of My Magnet Investigation Notebook/Journal backline printables
Safety Magnet Investigation Recording Page backline printable
10 Is It Magnetic? Investigation Recording Pages backline printables
Directions and pictures of Magnet Investigation Tools
My Magnet Investigation At Home backline printable
What Is Magnetic On The Playground Investigation Recording Page backline printable
Magnetic/Non Magnetic Sorting Headers backline printable
Magnetic/Non Magnetic Sorting Pictures backline printable
Magnetic/Non Magnetic Sorting Headers colored printable
Is It Magnetic Emergent Reader backline printable
Magnet Book Suggestions
Objects Can Move Vocabulary Poster colored printable
Objects Can Move Vocabulary Chant colored printable
Objects On The Move Teacher Big Book colored printable
Pictures and Directions for Objects On The Move Predictable Chart
2 Versions of Emergent Reader Objects Can Move backline printable
Force and Motion Investigation Recording Page backline printable
2 Versions of 5 Objects On The Playground Investigation Recording Pages backline printables
Objects On The Go Compare Fast/Slow Investigation backline printable
Where Is Hooty? Colored Props printable
Where Is Hooty? Teacher Big Book colored printable

Scientist: Date:

My Force and Motion Investigation Notebook!





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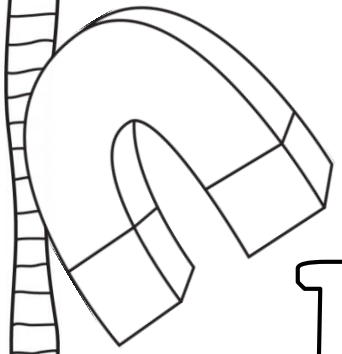
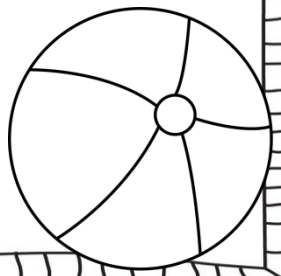
My Force and Motion Investigation Journal!





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MAGNETS

magnetic

non magnetic

attract

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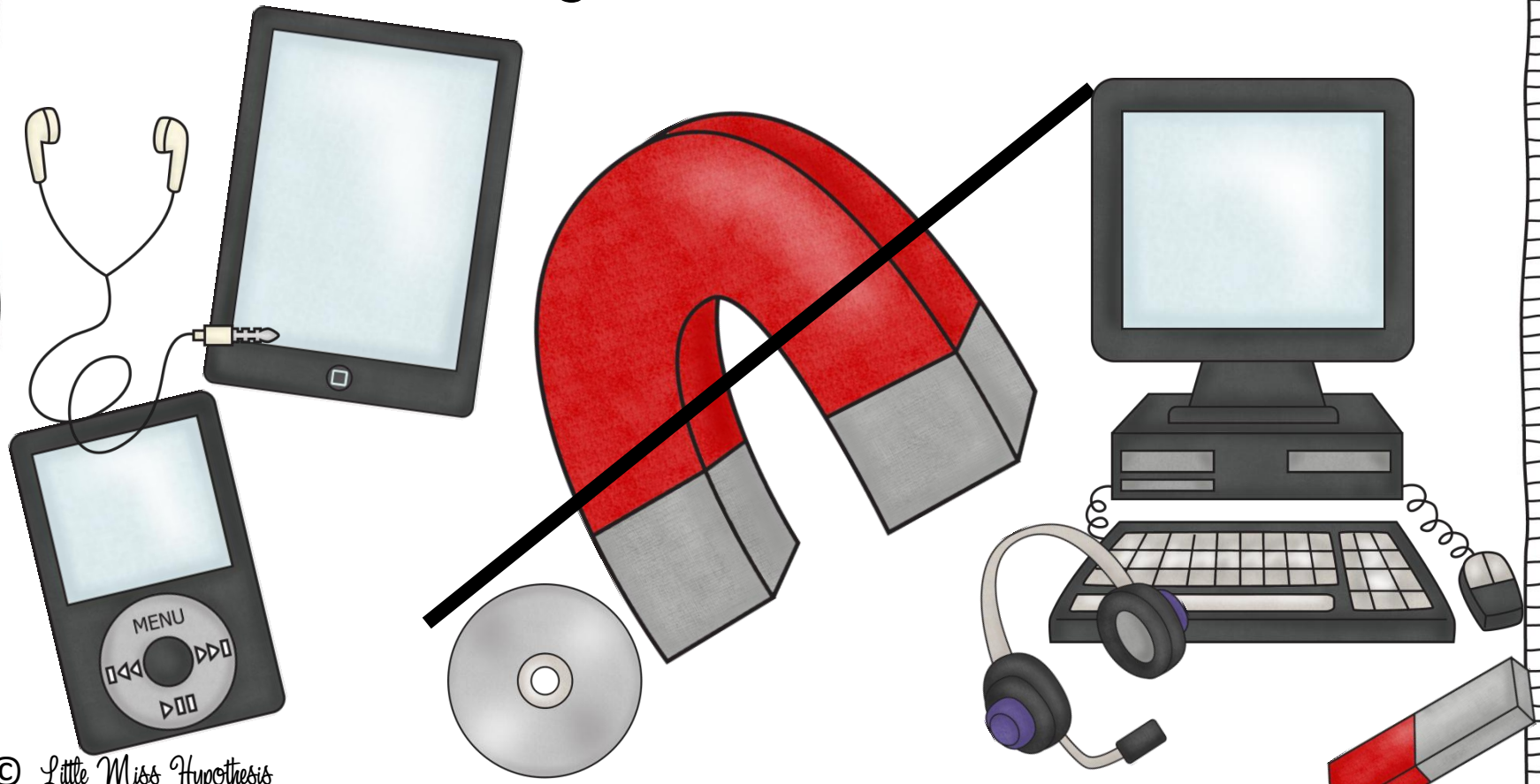
Vocabulary Poster

Magnet Safety Rules!

Never use magnets around electronics!



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Safety Poster

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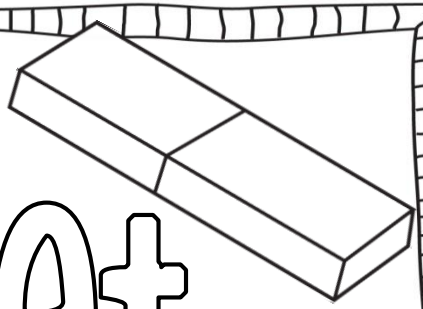
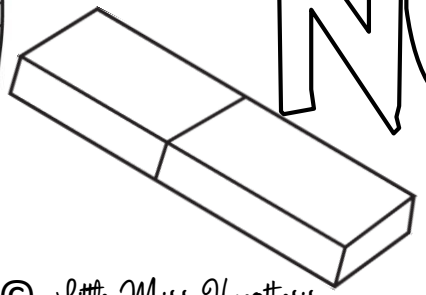
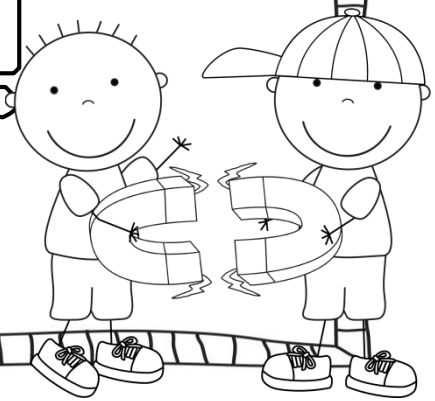


My Magnet Investigation Notebook!





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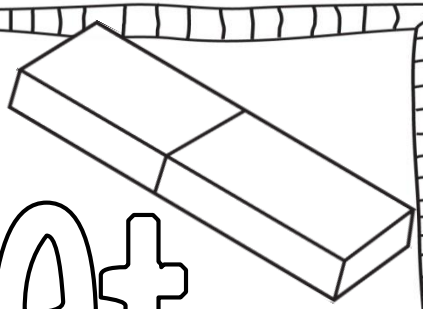

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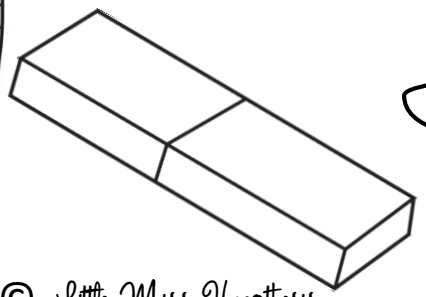

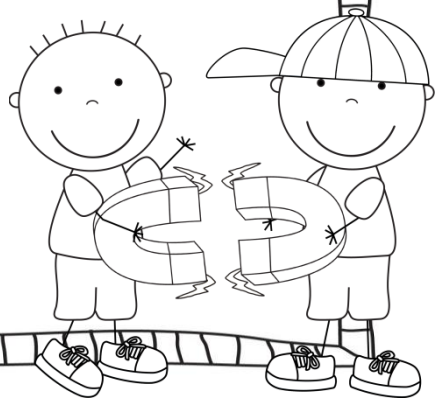

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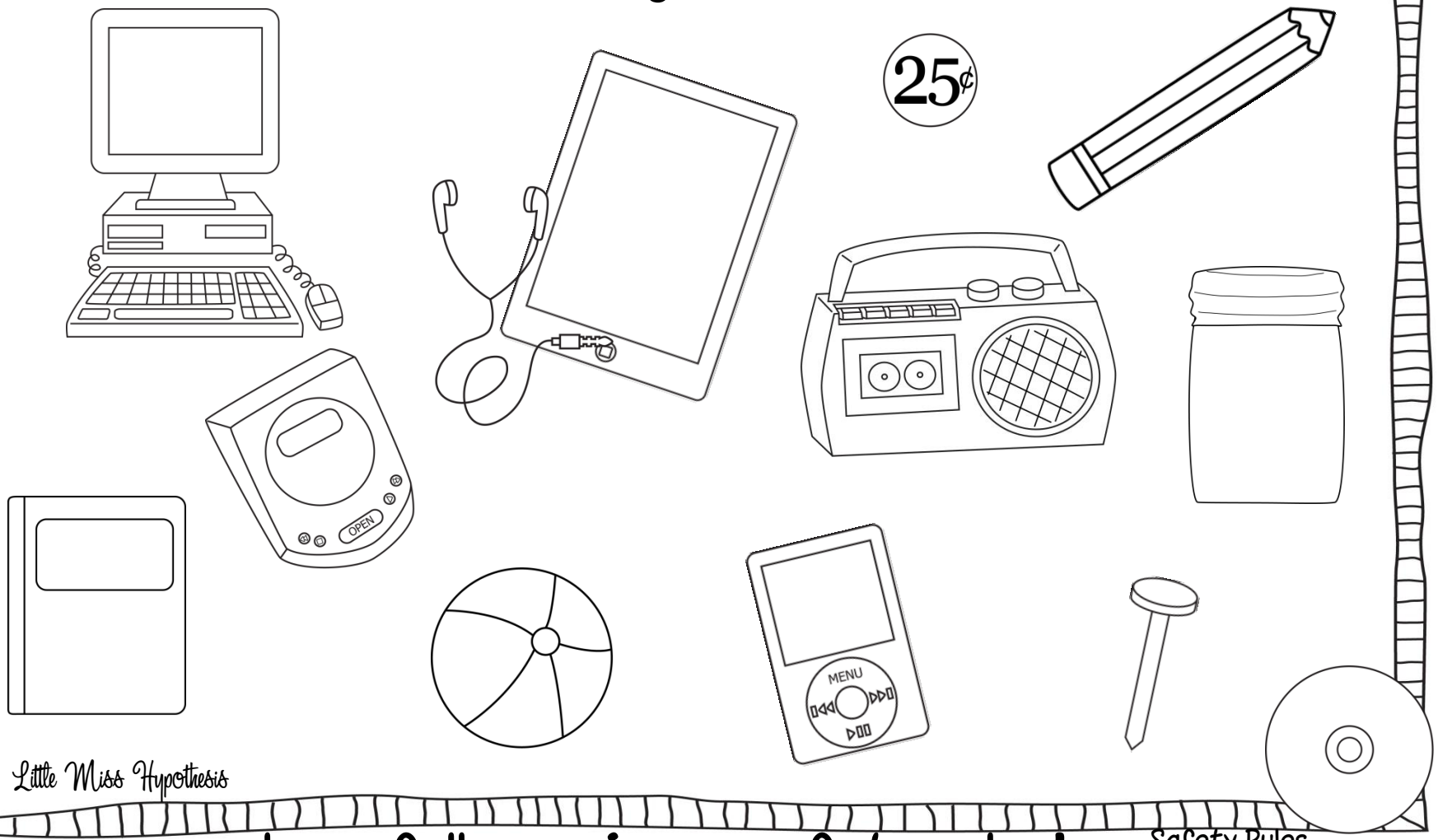
Scientist: Date:

Magnet Investigation Safety Rules!

Color the objects that magnets should not be used on.



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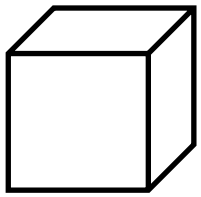
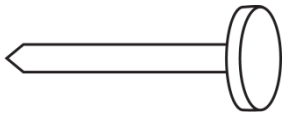
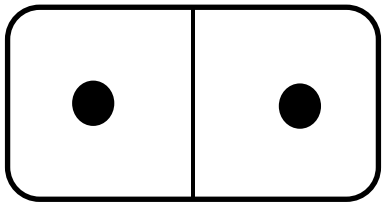
I can follow science safety rules!

Scientist: Date:

Is It Magnetic Or Non Magnetic?

magnetic non-magnetic 	magnetic non-magnetic 	magnetic non-magnetic 
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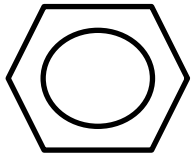
magnetic non-magnetic	magnetic non-magnetic	magnetic non-magnetic 

Can you predict what is magnetic?

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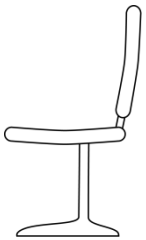
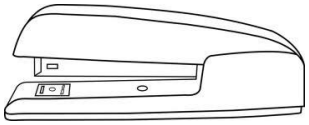
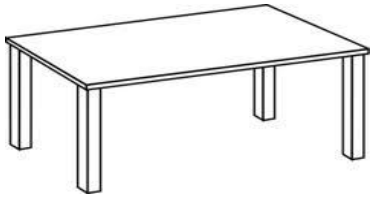
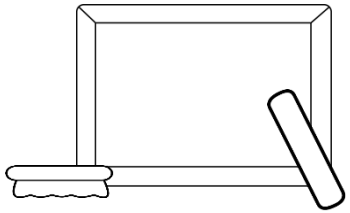
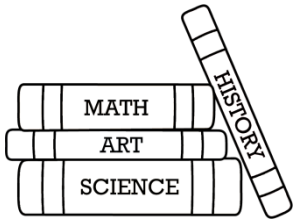
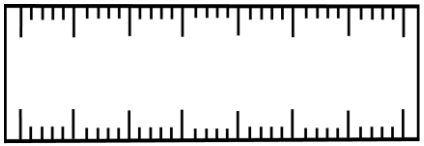
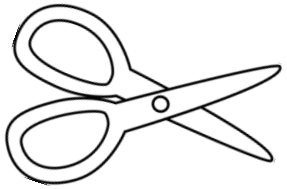
magnetic non-magnetic	magnetic non-magnetic 	magnetic non-magnetic 
magnetic non-magnetic 	magnetic non-magnetic	magnetic non-magnetic 
magnetic non-magnetic 	magnetic non-magnetic 	magnetic non-magnetic 

Can you predict what is magnetic?

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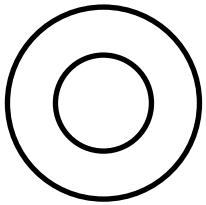
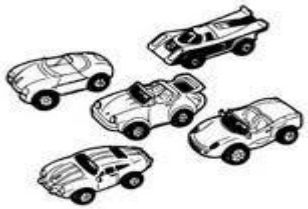
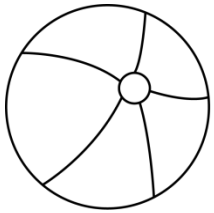
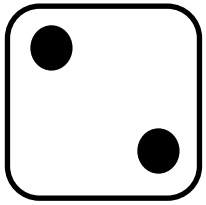
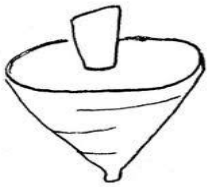
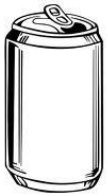
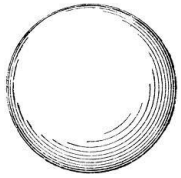
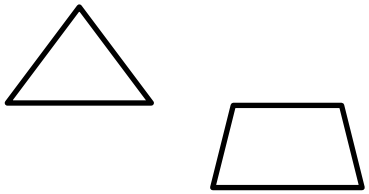
magnetic non-magnetic 	magnetic non-magnetic 	magnetic non-magnetic 
magnetic non-magnetic 	magnetic non-magnetic 	magnetic non-magnetic
magnetic non-magnetic 	magnetic non-magnetic 	magnetic non-magnetic 

Can you predict what is magnetic?

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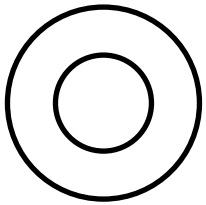
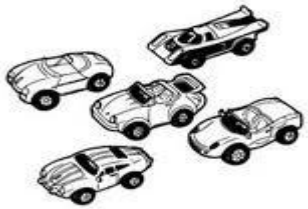
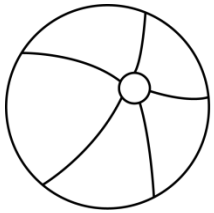
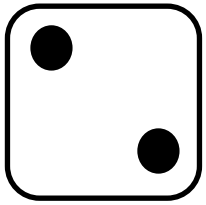
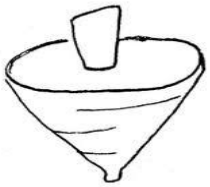
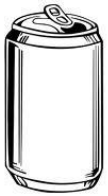
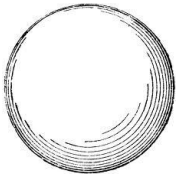
Is It Magnetic Or Non Magnetic?

magnetic non-magnetic 	magnetic non-magnetic 	magnetic non-magnetic 
magnetic non-magnetic 	magnetic non-magnetic 	magnetic non-magnetic
magnetic non-magnetic 	magnetic non-magnetic 	magnetic non-magnetic

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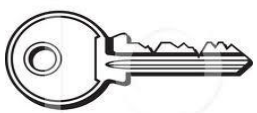
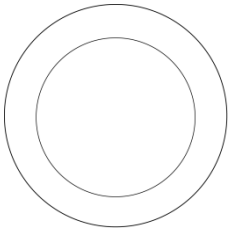
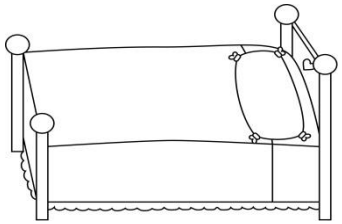
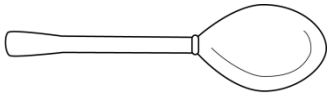
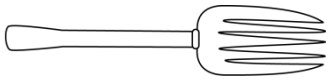
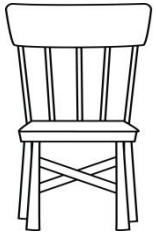
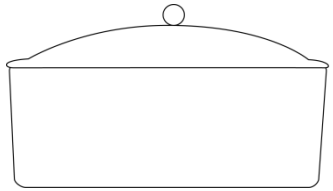
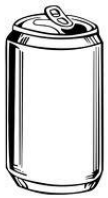
My Magnet Investigation At Home!

magnetic non-magnetic 	magnetic non-magnetic 	magnetic non-magnetic 
magnetic non-magnetic 	magnetic non-magnetic	magnetic non-magnetic 
magnetic non-magnetic 	magnetic non-magnetic 	magnetic non-magnetic 

I can follow safety rules at home and school!

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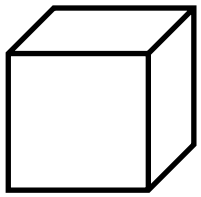
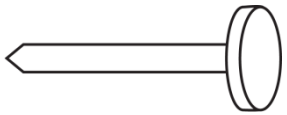
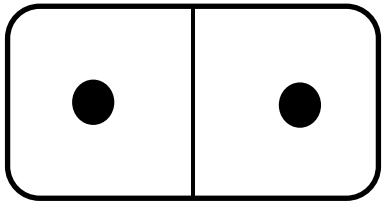
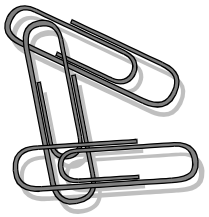
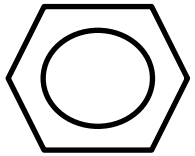
Scientist: Date:

Is It Magnetic Or Non Magnetic?

yes no 	yes no 	yes no 
yes no	yes no	yes no
yes no 	yes no	yes no 

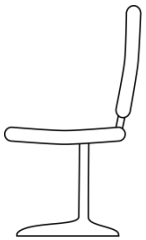
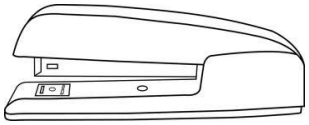
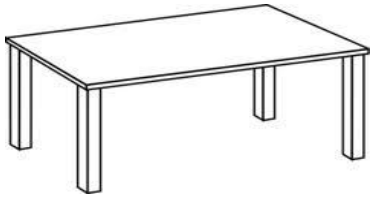
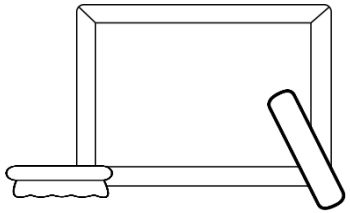
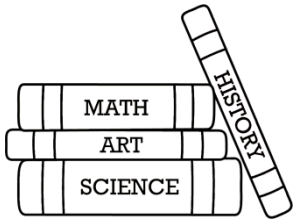
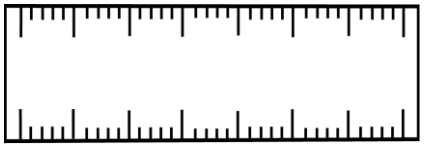
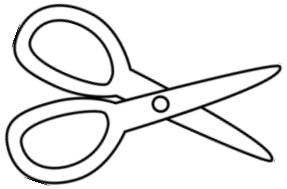
Can you predict what is magnetic?

© Little Miss Hypothesis

© Developing Young Scientists Force and Motion Unit

Scientist: Date:

Is It Magnetic Or Non Magnetic?

yes no	yes no 	yes no 
yes no 	yes no	yes no 
yes no 	yes no 	yes no 

Can you predict what is magnetic?

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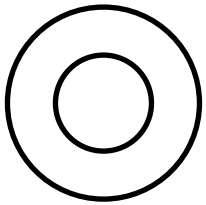
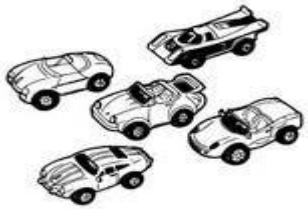
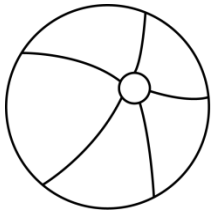
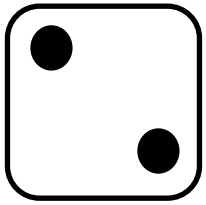
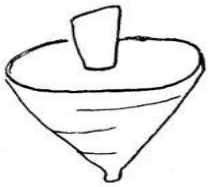
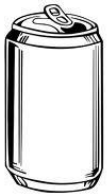
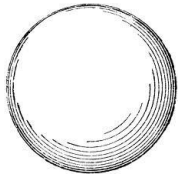
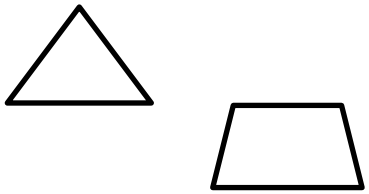
Scientist: Date:

Is It Magnetic Or Non Magnetic?

yes no 	yes no 	yes no 
yes no 	yes no 	yes no
yes no 	yes no 	yes no 

Can you predict what is magnetic?

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If you are thinking about magnet homework for your Scientists a quick and easy way to send a magnet home with each student is to glue a magnet on a craft stick and send with the homework page. I found my magnets at Wal-Mart for around three dollars. It was easy, fun and inexpensive to create our new Science Tools for our investigation box.

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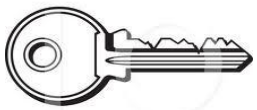
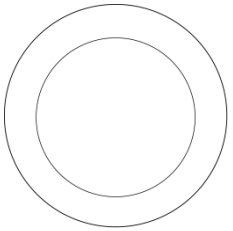
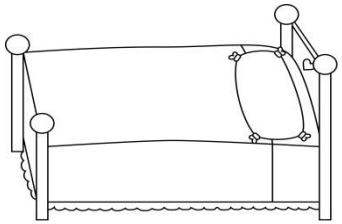
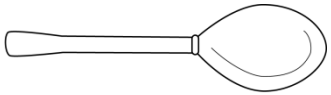
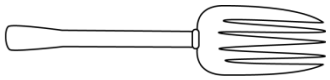
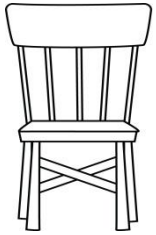
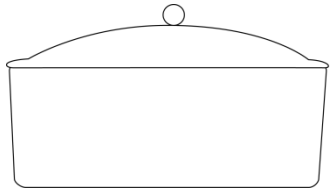
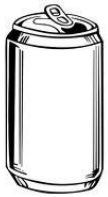
Scientist: Date:

My Magnet Investigation At Home!

yes no 	yes no 	yes no 
yes no 	yes no	yes no 
yes no 	yes no 	yes no 

I can follow safety rules at home and school!

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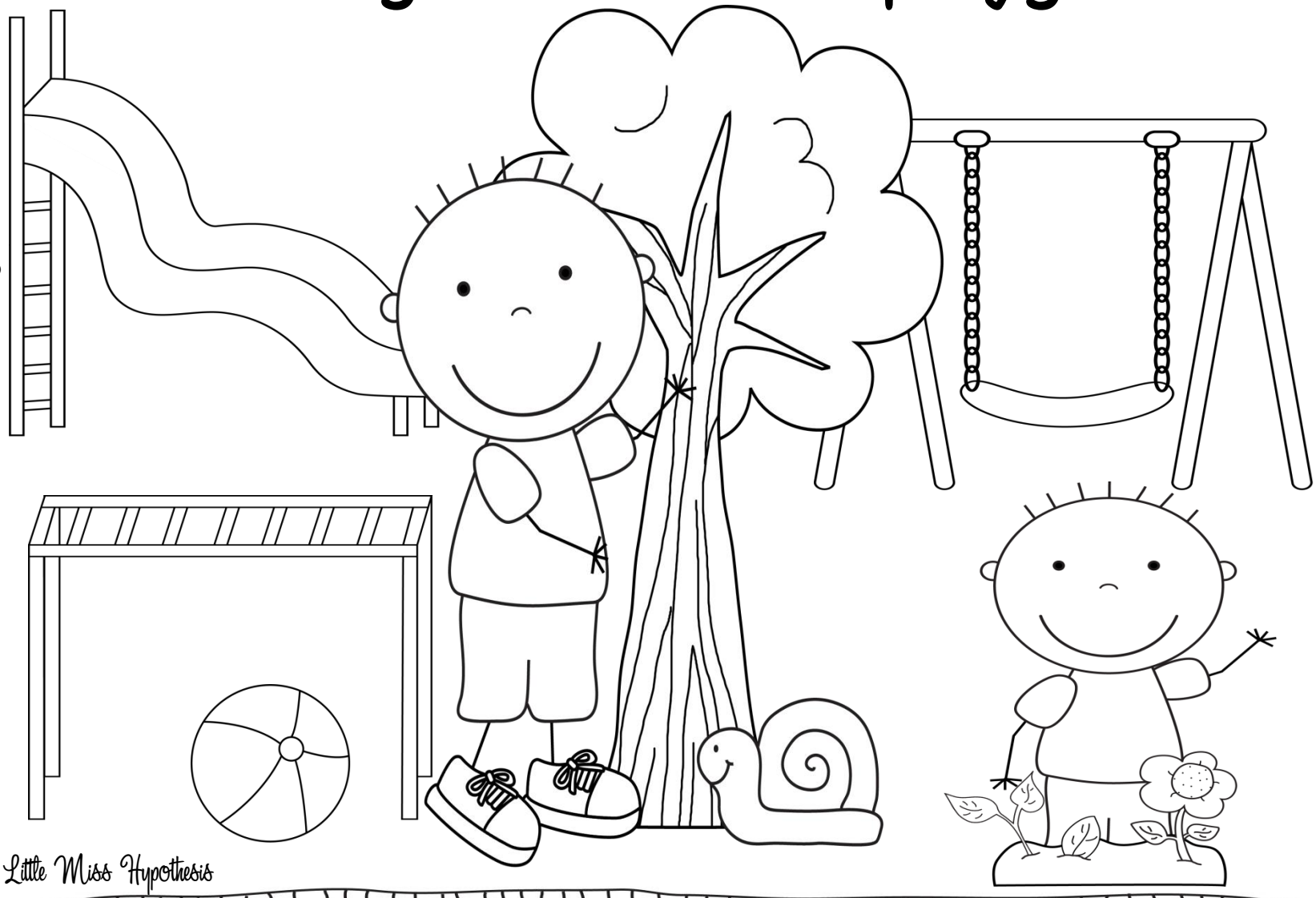
Scientist:

What is magnetic on the playground?

Force and Motion Field Investigation!



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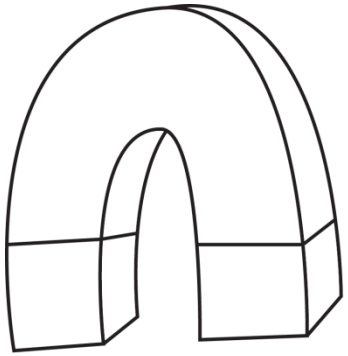
Scientists investigate!

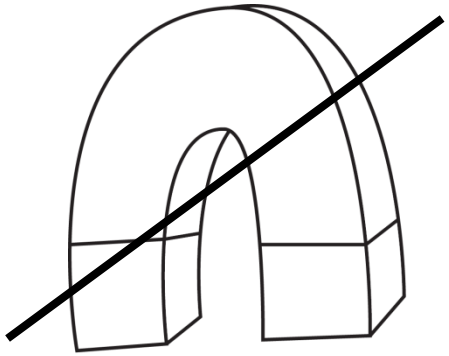
Investigation Recording Sheet

Headers to use with magnetic and non magnetic sort

Magnetic



Non Magnetic



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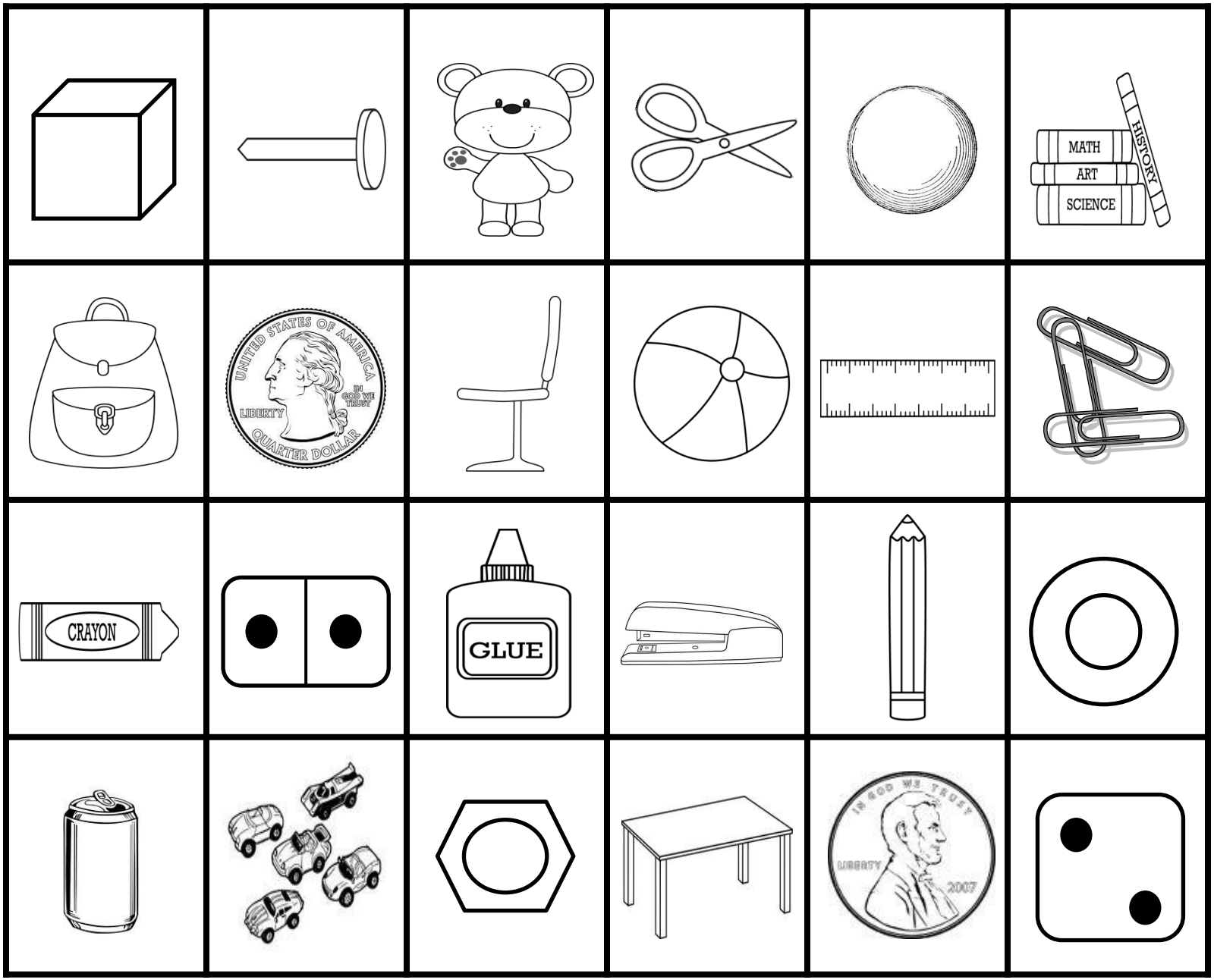

Force, Motion and Energy Unit

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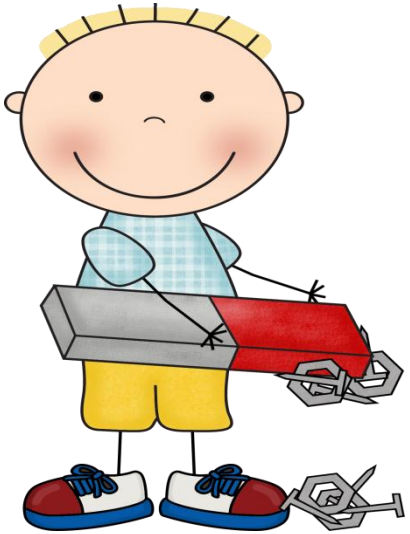
Magnetic and Non Magnetic Sort

Magnetic



Non Magnetic

Sort Headers to be used with sorting different materials into the conceptual categories of Magnetic and Non Magnetic. To make a sort box all you need are magnetic and non magnetic items and a magnet.

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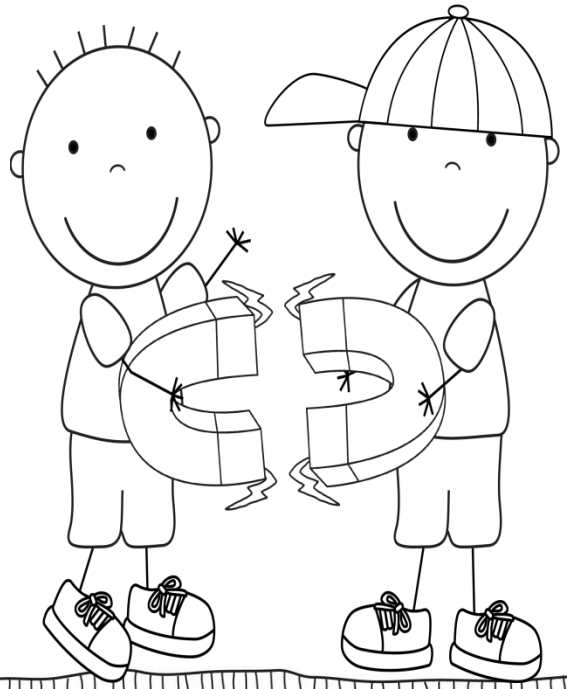
Is It Magnetic?



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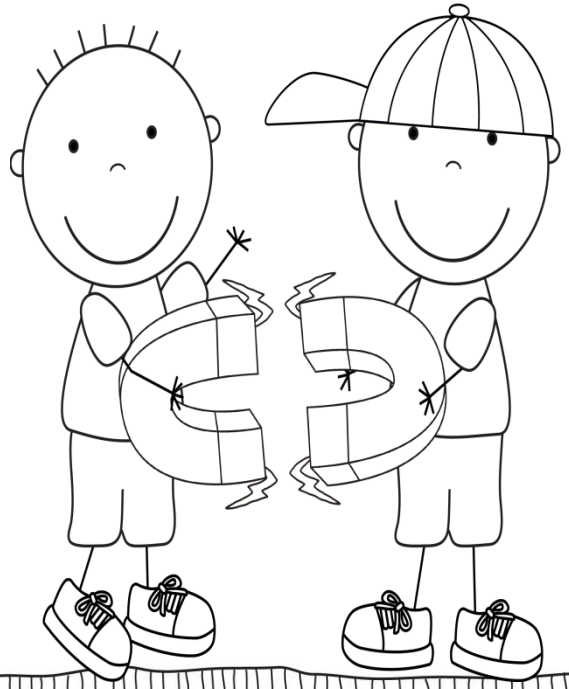
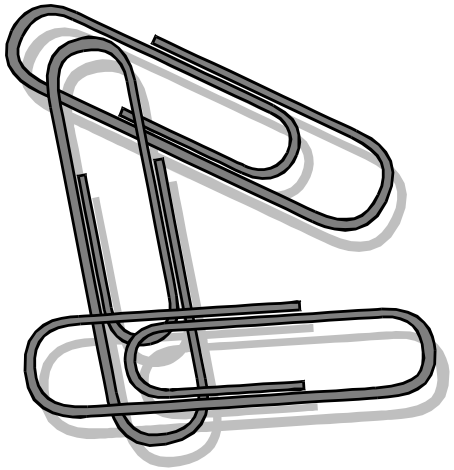
Is It Magnetic?



© Little Miss Hypothesis

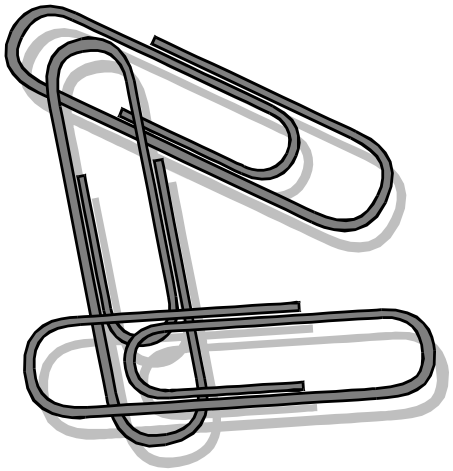
Is it magnetic?



Yes

© Little Miss Hypothesis

Is it magnetic?



Yes

© Little Miss Hypothesis

Is it magnetic?

No

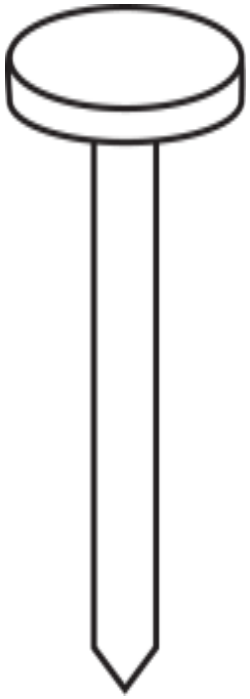
© Little Miss Hypothesis

Is it magnetic?

No

© Little Miss Hypothesis

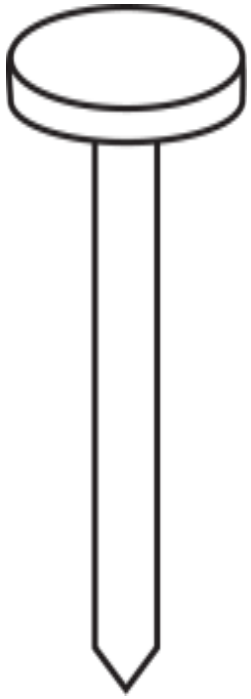
Is it magnetic?



Yes

© Little Miss Hypothesis

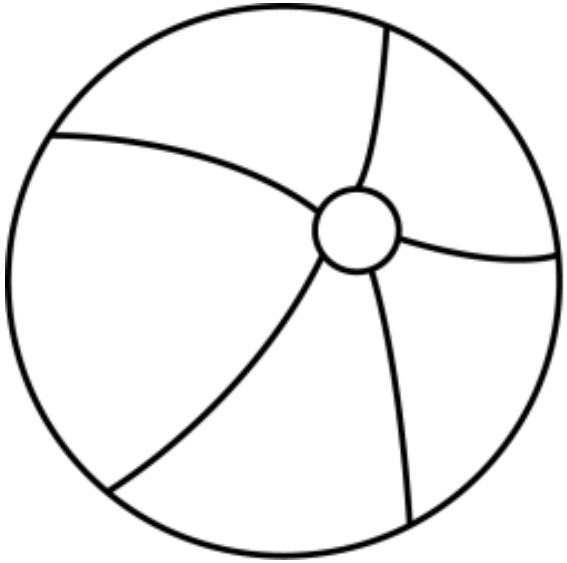
Is it magnetic?



Yes

© Little Miss Hypothesis

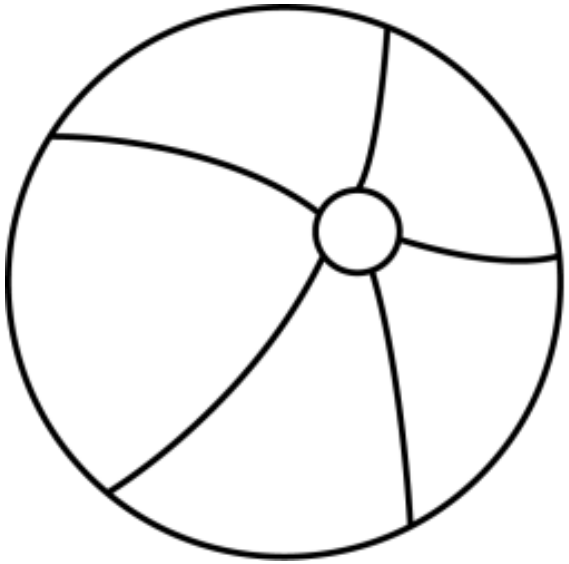
Is it magnetic?



No

© Little Miss Hypothesis

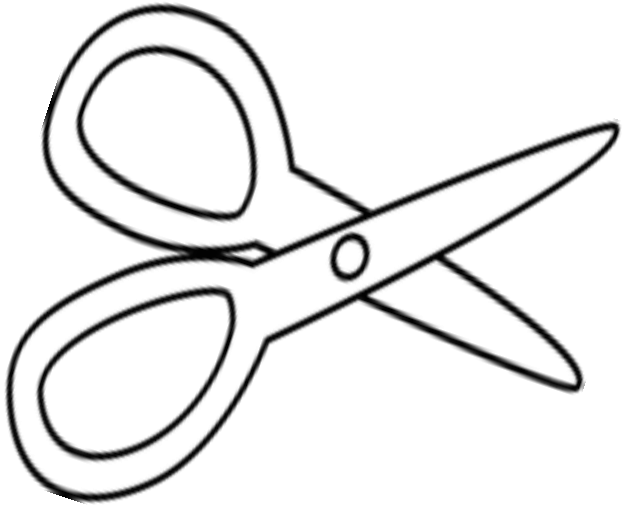
Is it magnetic?



No

© Little Miss Hypothesis

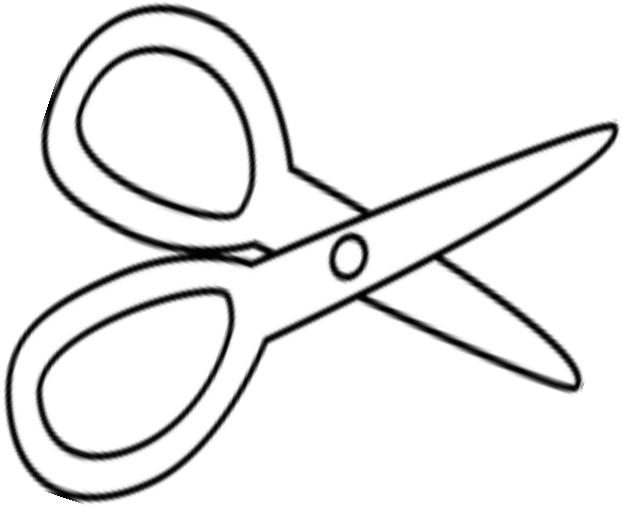
Is it magnetic?



Yes

© Little Miss Hypothesis

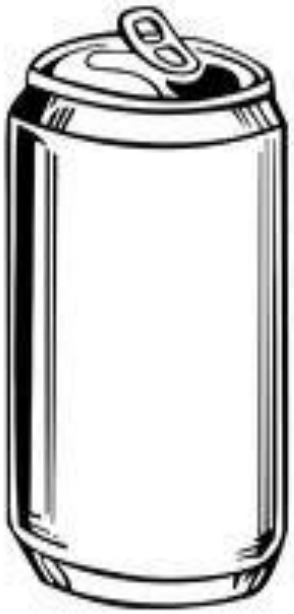
Is it magnetic?



Yes

© Little Miss Hypothesis

Is it magnetic?



No

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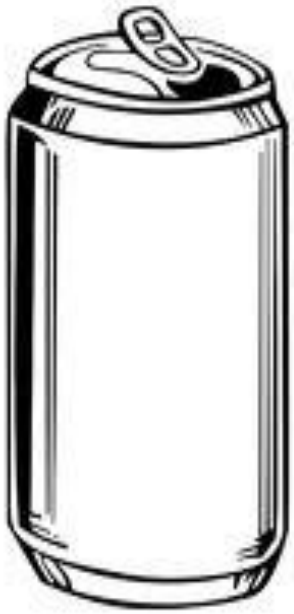
Is it magnetic?



No

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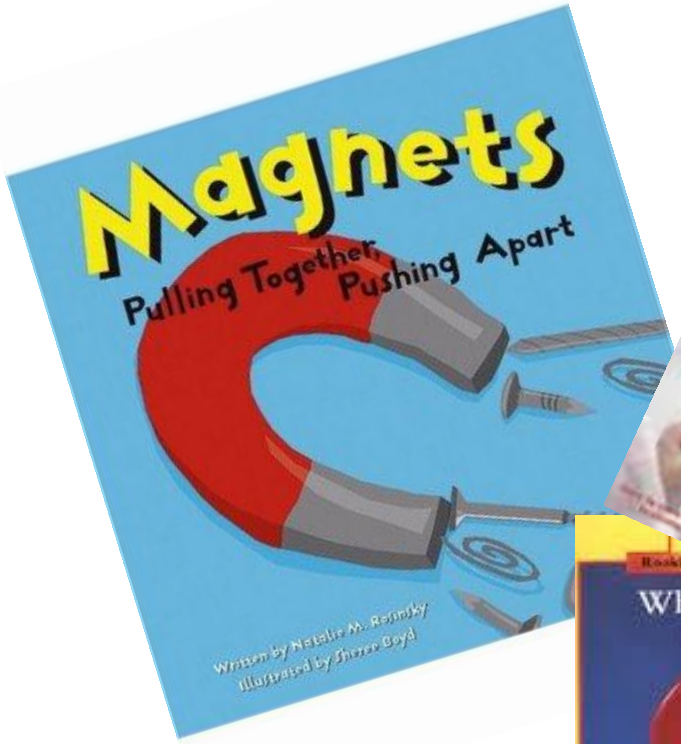
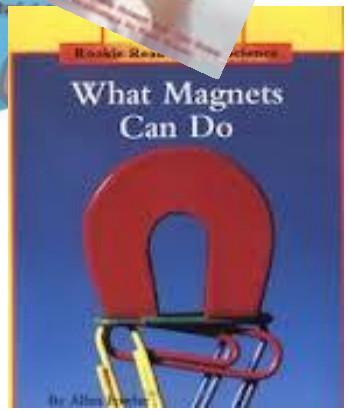




These are three of my favorite books about magnets. I use these throughout the unit. I am always on the lookout for more!

Objects Can Move Chant!

I try to incorporate a song, a chant or poem for each concept we are talking about. Objects Can Move is a vocabulary chant we use throughout the unit.

Paths of Motion Vocabulary Cars!

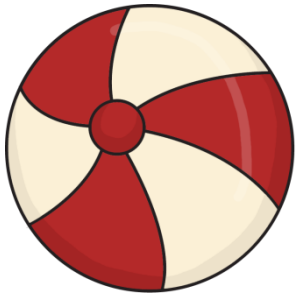
I am excited that this is something new to my Science Units. I am laminating a colored copy and putting it on our Science wall and I am also laminating a copy for each table of children to use when they are writing in their notebooks.

Objects On The Move Big Book!

I use the big books as visual aids to help the children understand the concepts being delivered. I print, laminate and bind a copy for me to use and a copy to keep in the Science area of our classroom. The children are free to read these independently.

Objects Can Move!

Objects can move
up and down
up and down
up and down.



Objects can move
↑ up and down ↓
all around town!

Objects can move
In a <u>straight line</u>.
In a zigzag. VVVVV
<u>Back</u> and <u>forth</u>.
Fast and slow.
Round and round.

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Paths of Motion

straight line	zigzag	up
down	back	forth
round and round	fast	slow

Objects can move!

© Little Miss Hypothesis

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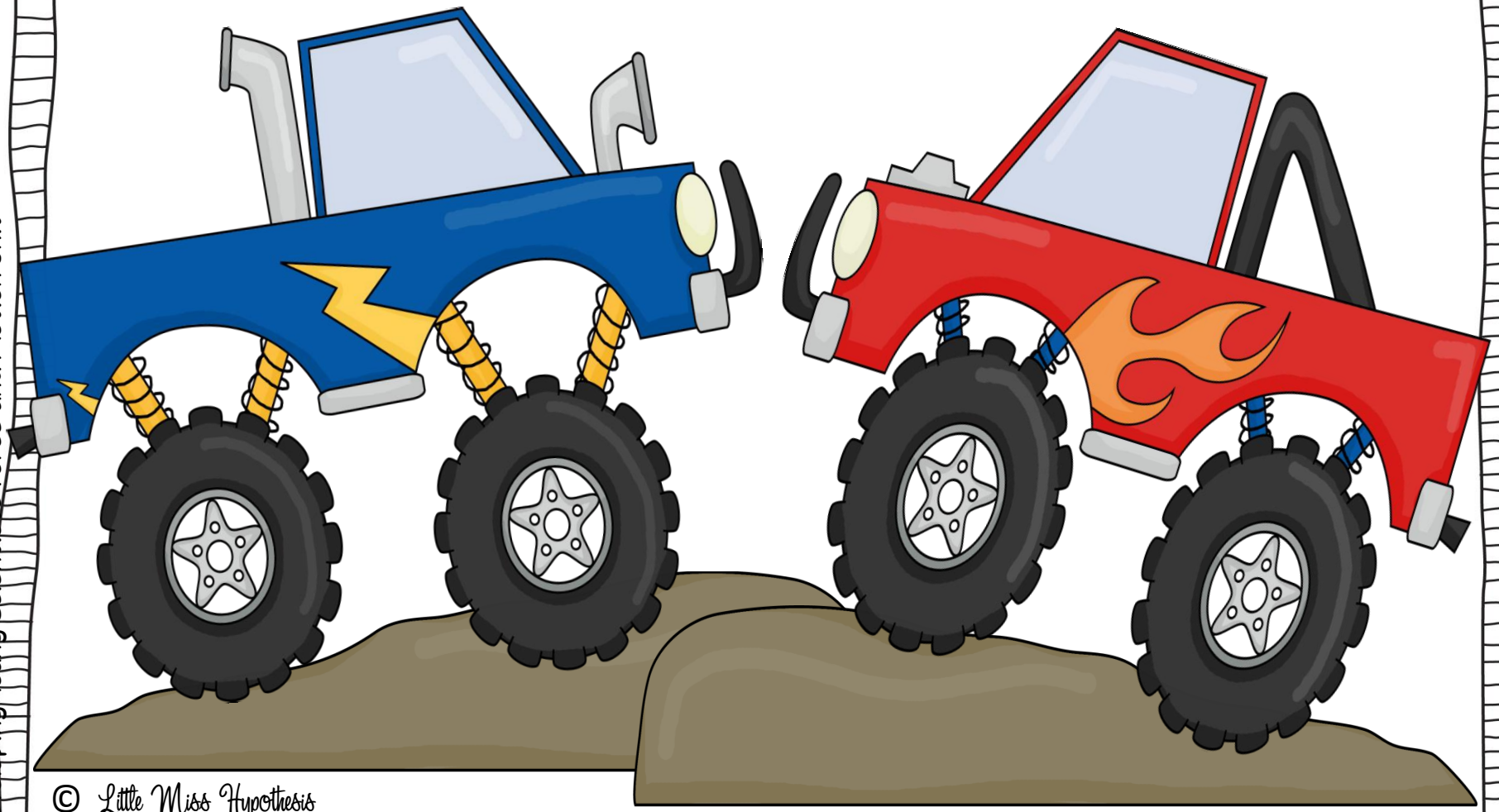
Objects On The Move!



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Objects can move in a straight line.

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VVVVVVVVVVV

Objects can move in a zigzag.

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Objects can move up.

© Little Miss Hypothesis

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Objects can move down.

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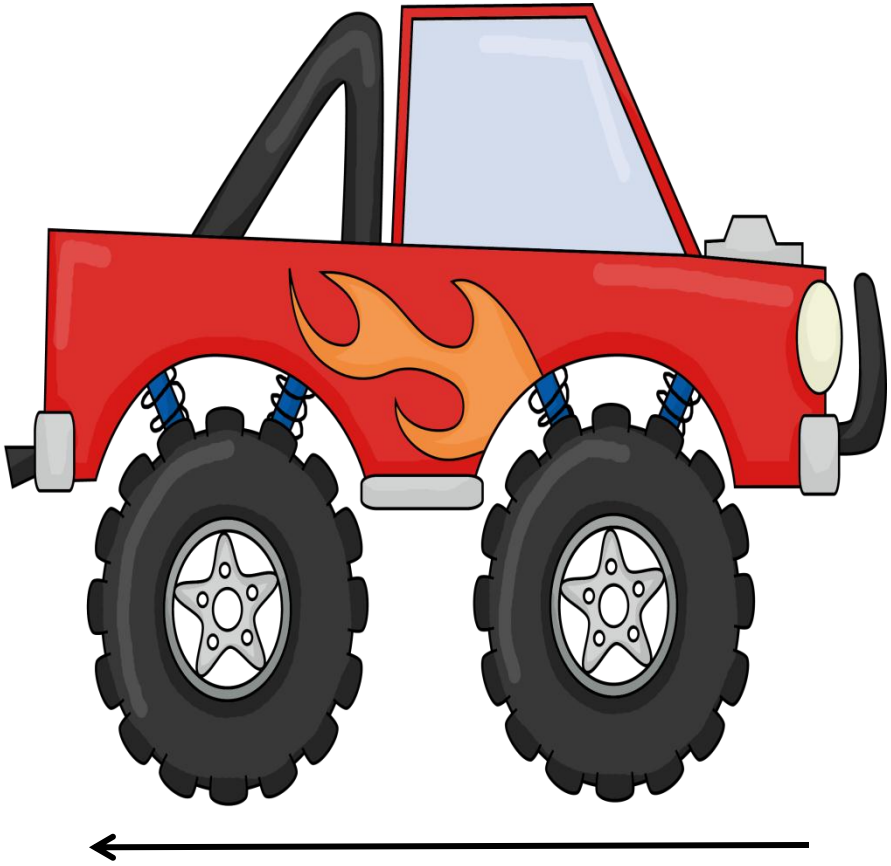

Objects can move back.

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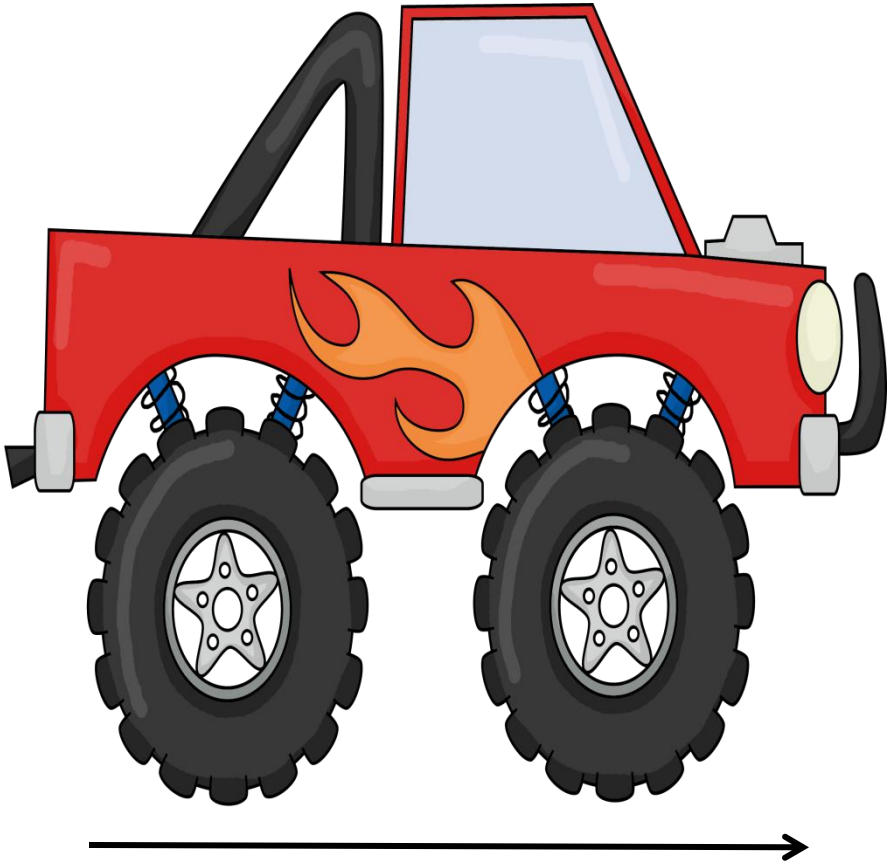

Objects can move forth.

© Little Miss Hypothesis

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Objects can move round and round.

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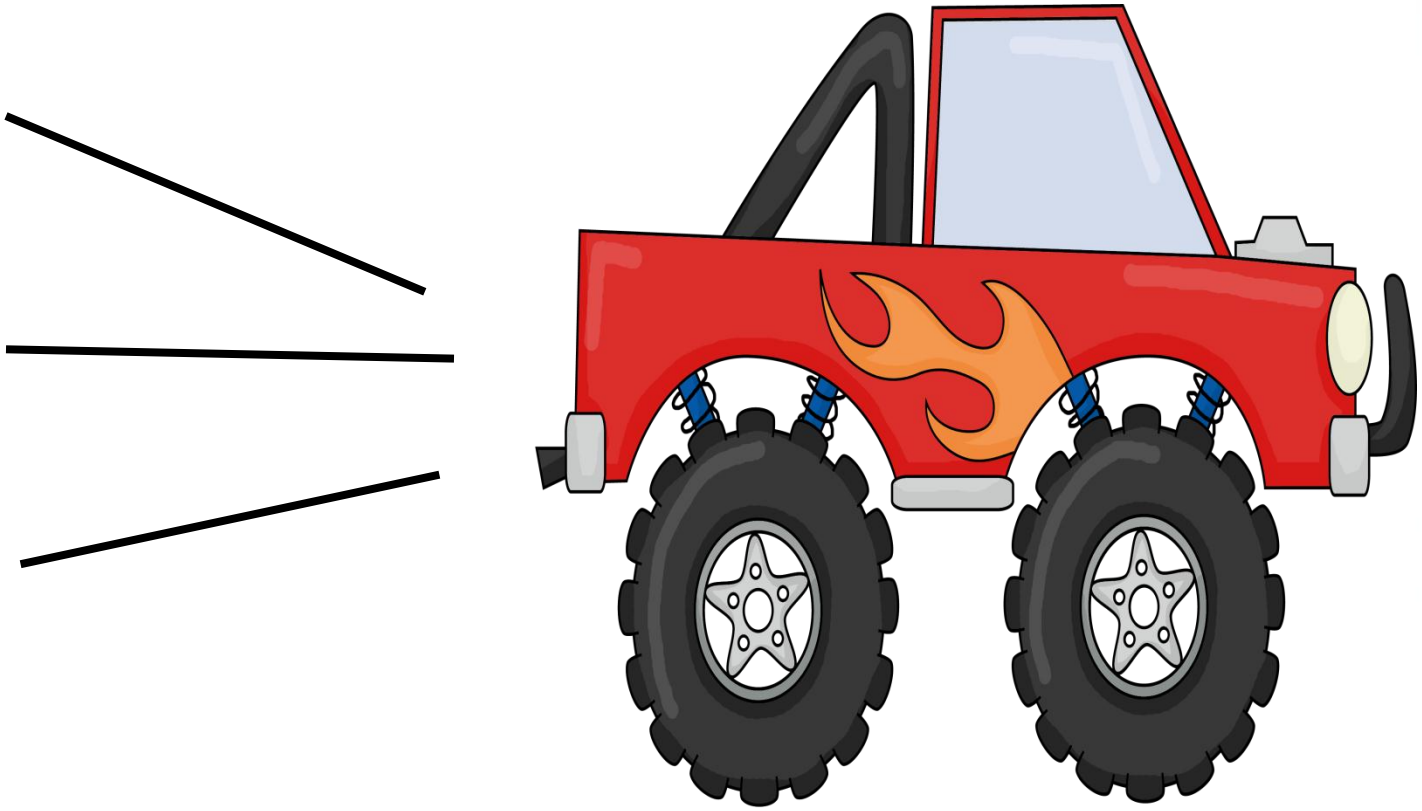

Objects can move fast.

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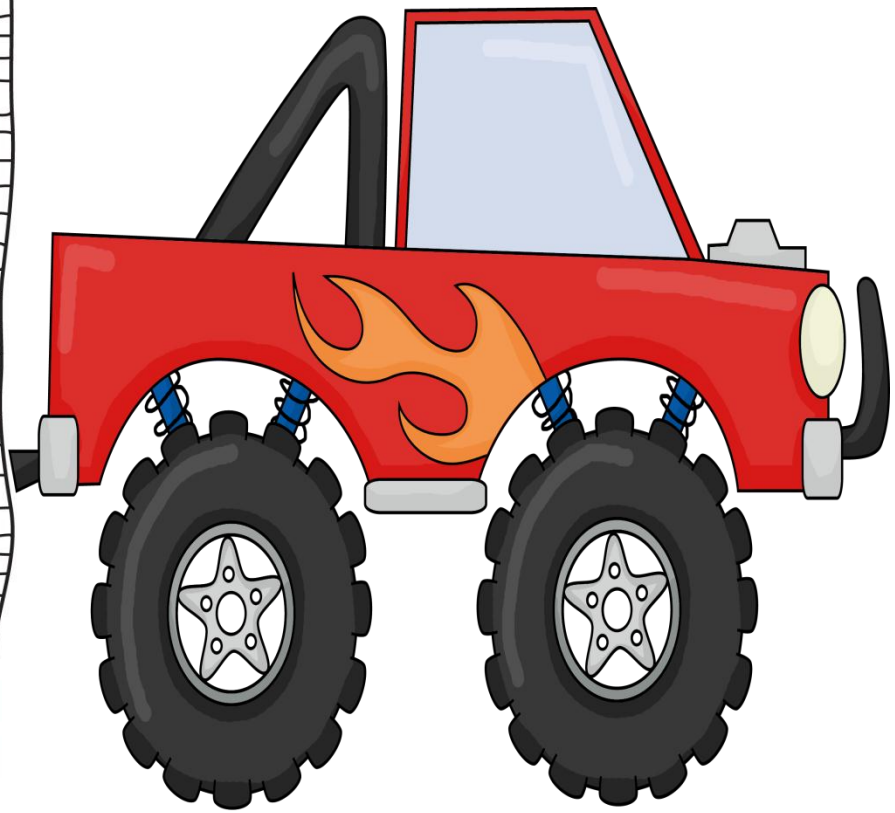
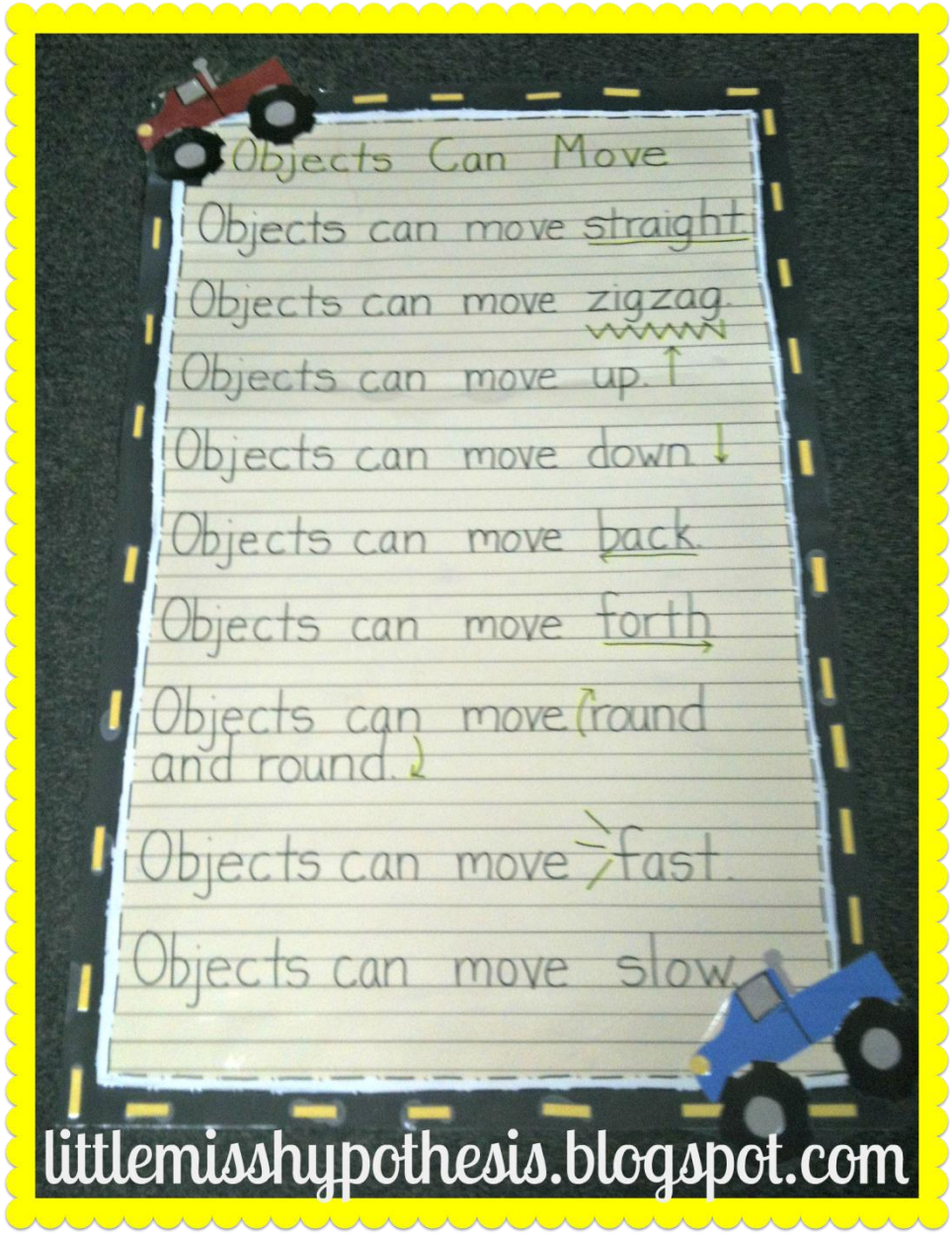


Objects can move slow.

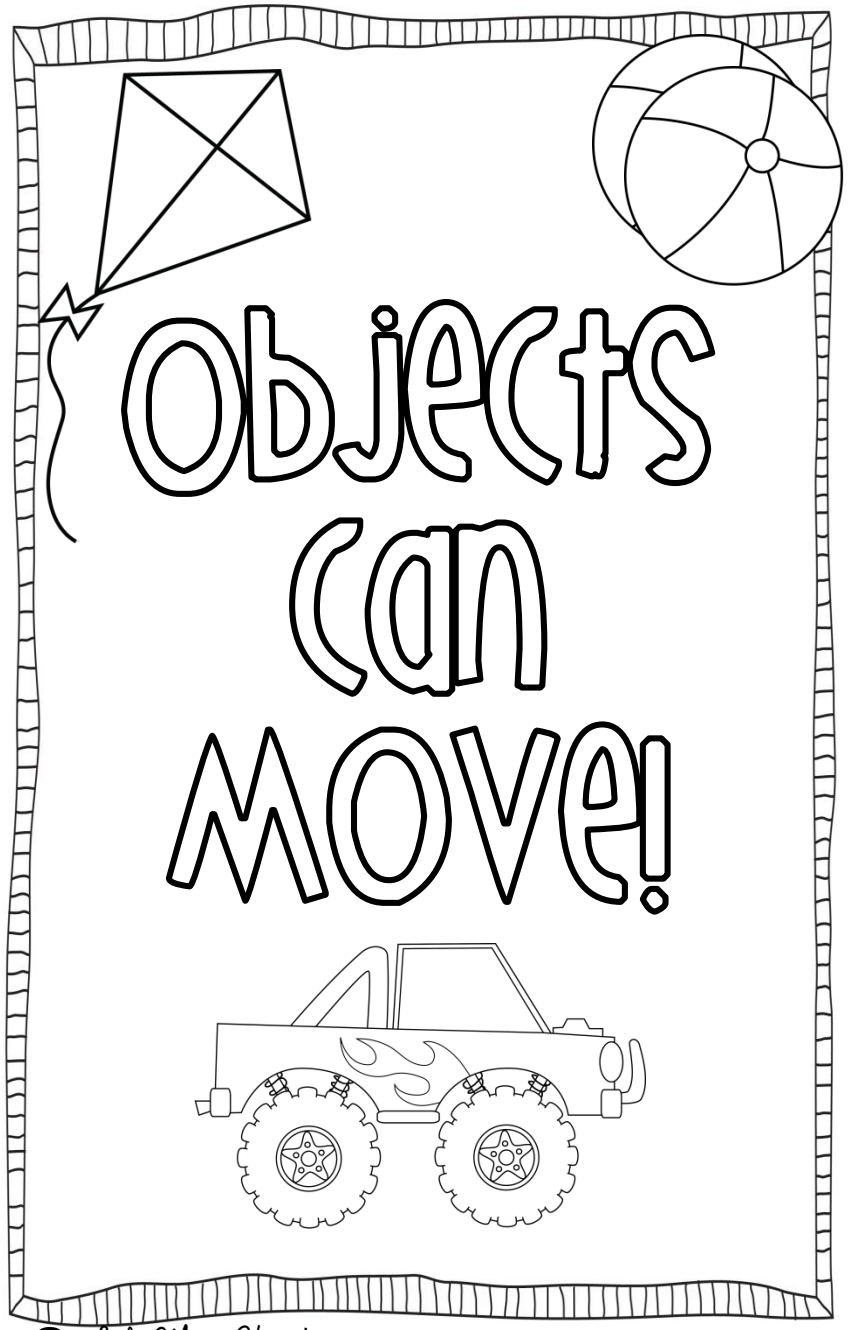
© Little Miss Hypothesis

© Developing Young Scientists Force and Motion Unit

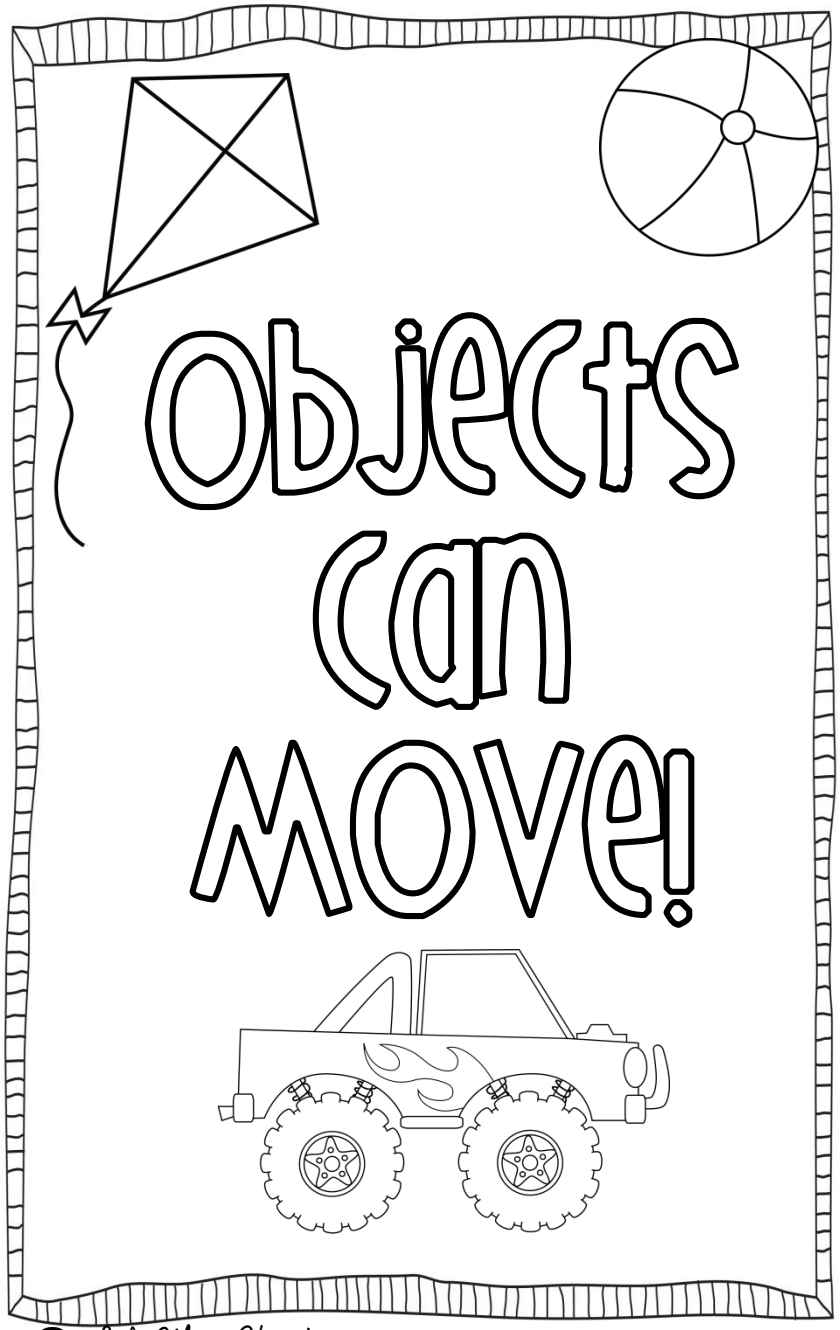


Objects on the move... I just love this chart. I made this for my class to use during our Science time as we were discussing ways objects can move. I laminate these posters and then tape them to a hanger. I have several places in the room that the children can hang them for independent reading.

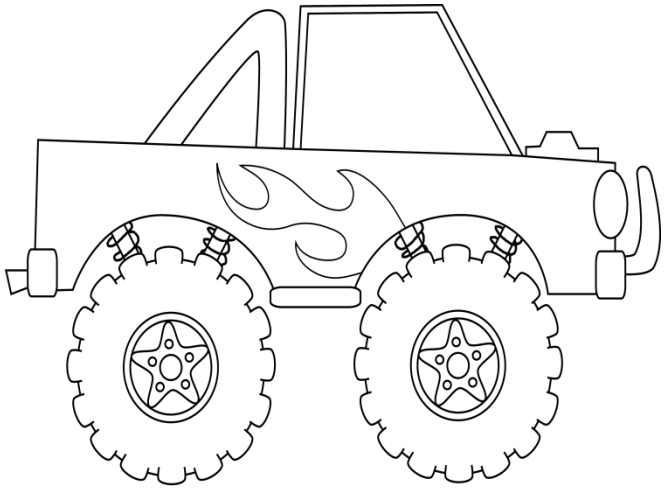
© Developing Young Scientists Force and Motion Unit



© Little Miss Hypothesis

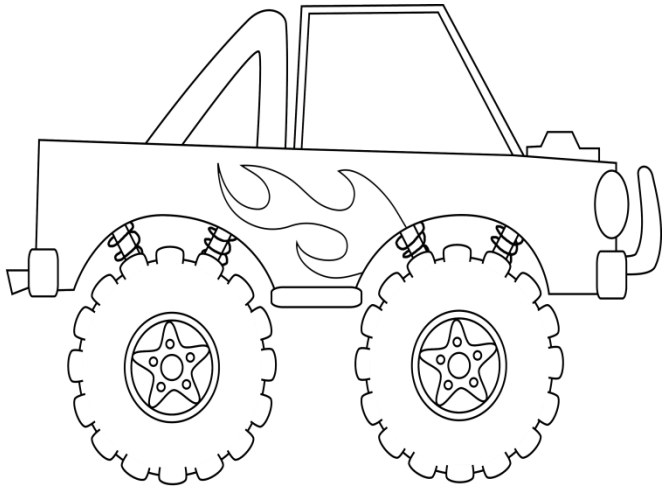


© Little Miss Hypothesis



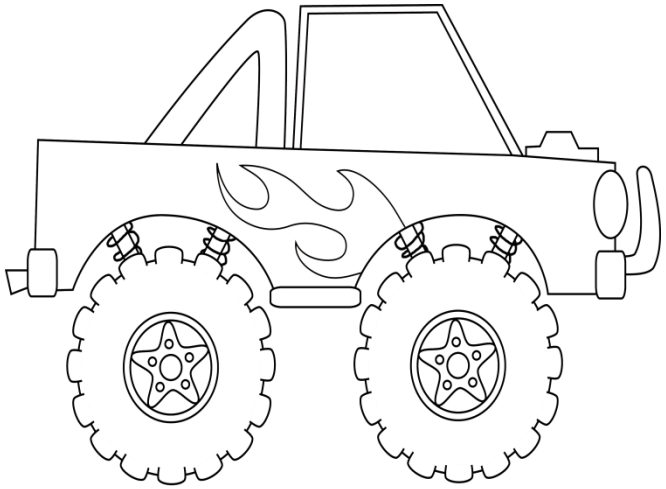
Objects can move in a straight line.

© Little Miss Hypothesis



Objects can move in a straight line.

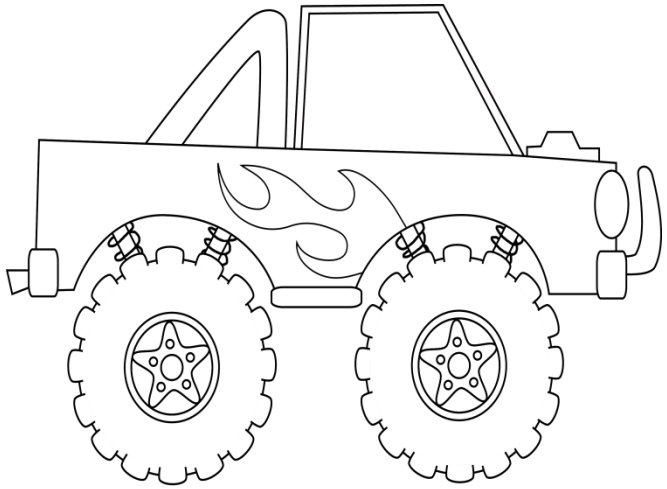
© Little Miss Hypothesis



vvvvvvvvv

Objects can move in a zigzag.

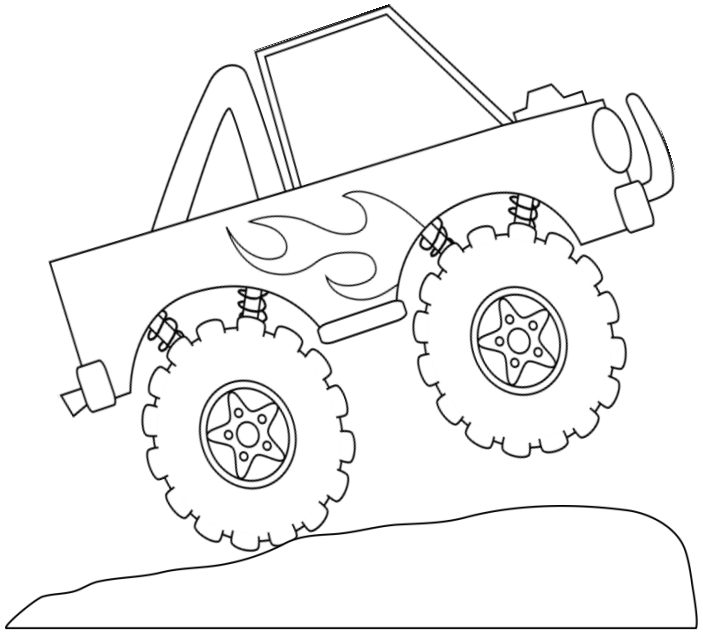
© Little Miss Hypothesis



vvvvvvvvv

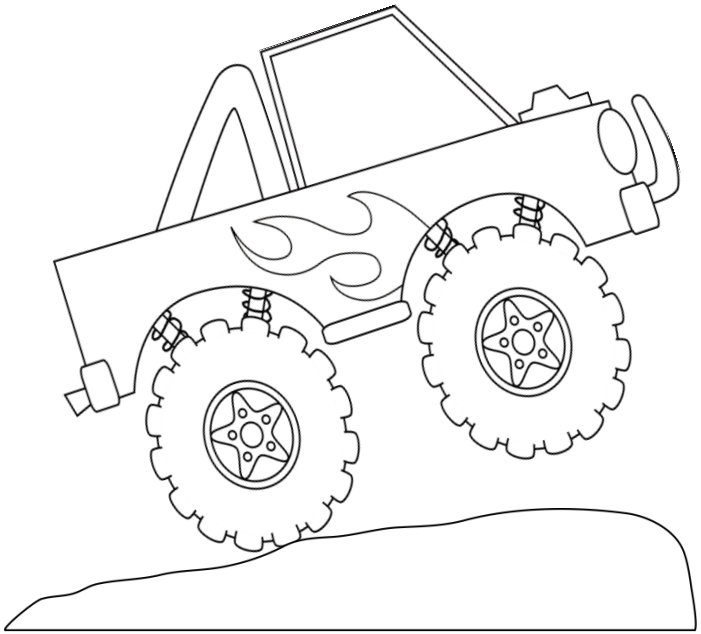
Objects can move in a zigzag.

© Little Miss Hypothesis



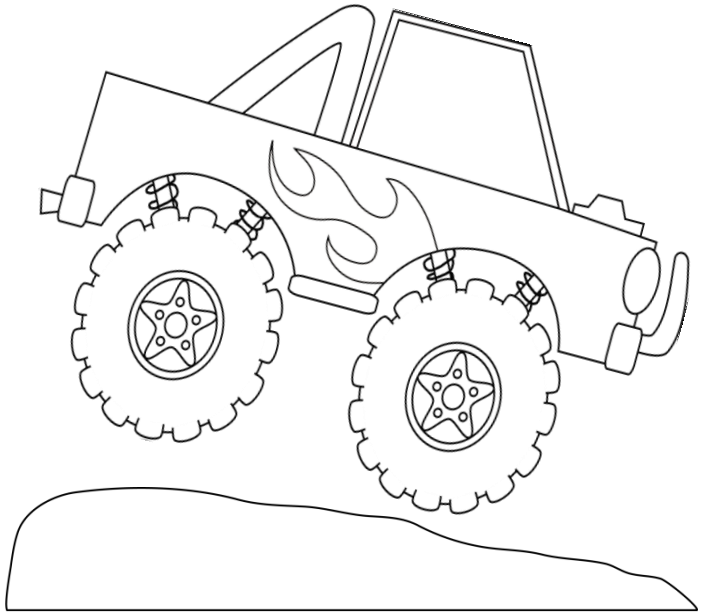
Objects can move up.

© Little Miss Hypothesis



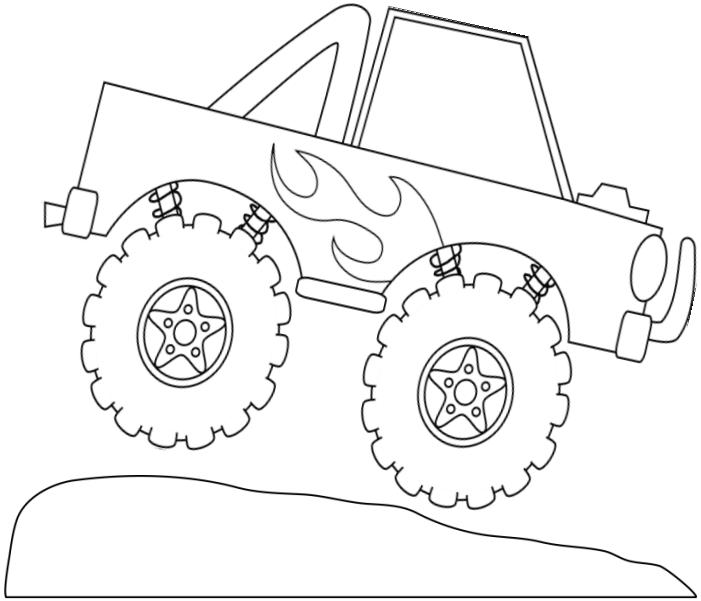
Objects can move up.

© Little Miss Hypothesis



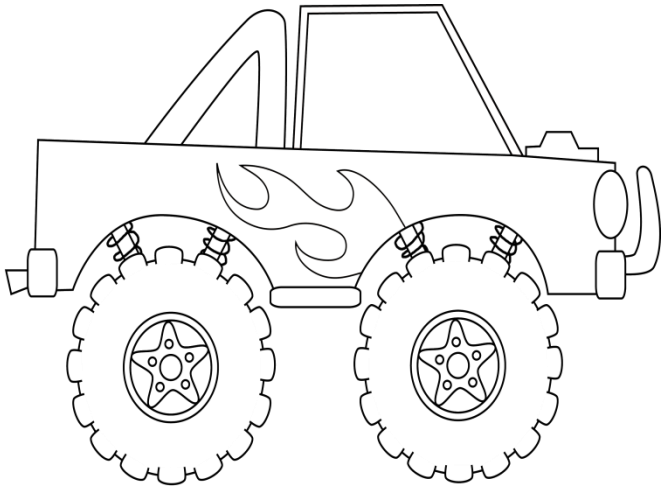
Objects can move down.

© Little Miss Hypothesis



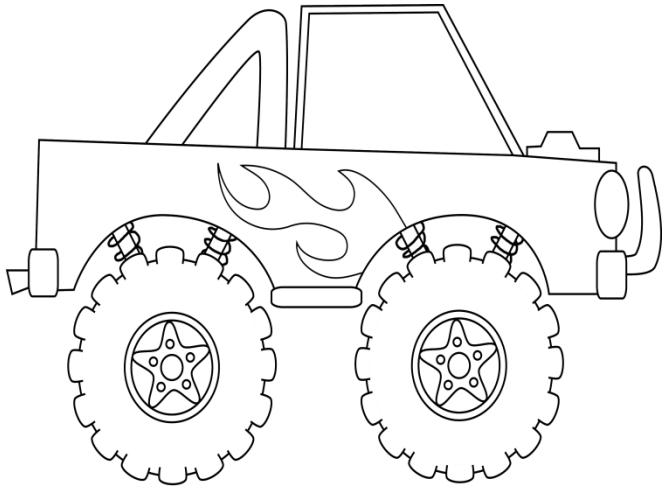
Objects can move down.

© Little Miss Hypothesis



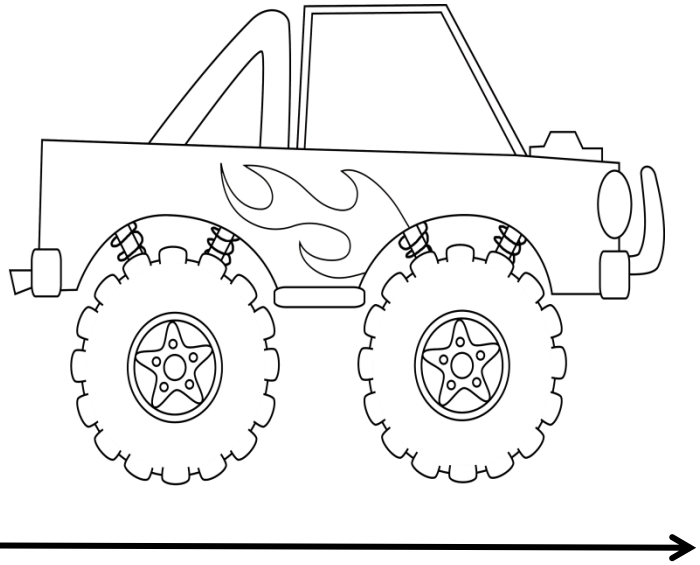
Objects can move back.

© Little Miss Hypothesis



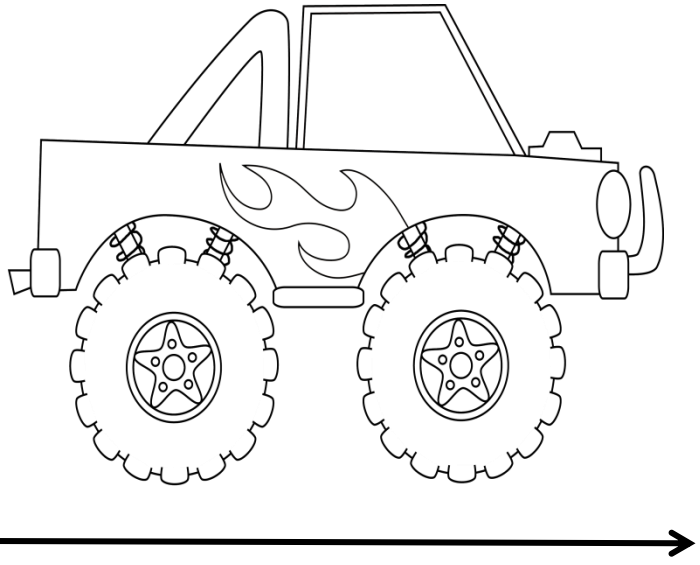
Objects can move back.

© Little Miss Hypothesis



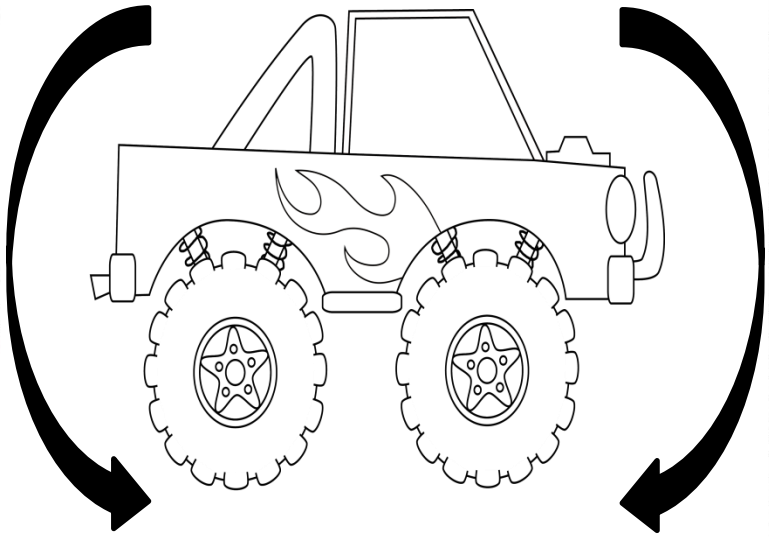
Objects can move forth.

© Little Miss Hypothesis



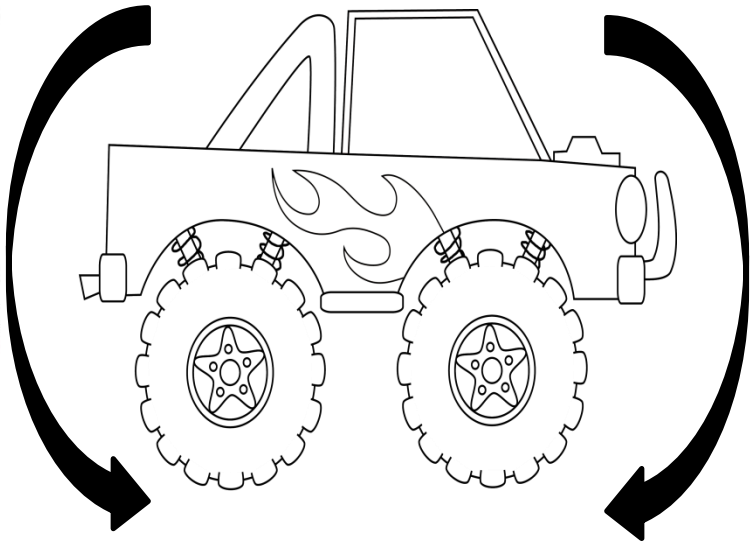
Objects can move forth.

© Little Miss Hypothesis



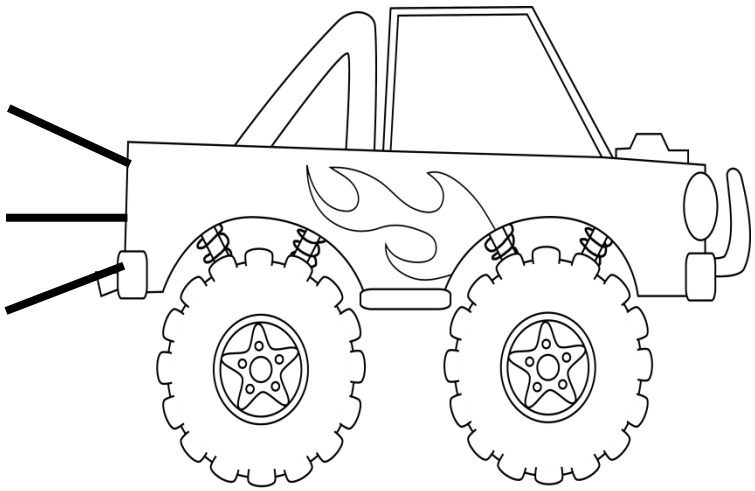
Objects can move round and round.

© Little Miss Hypothesis



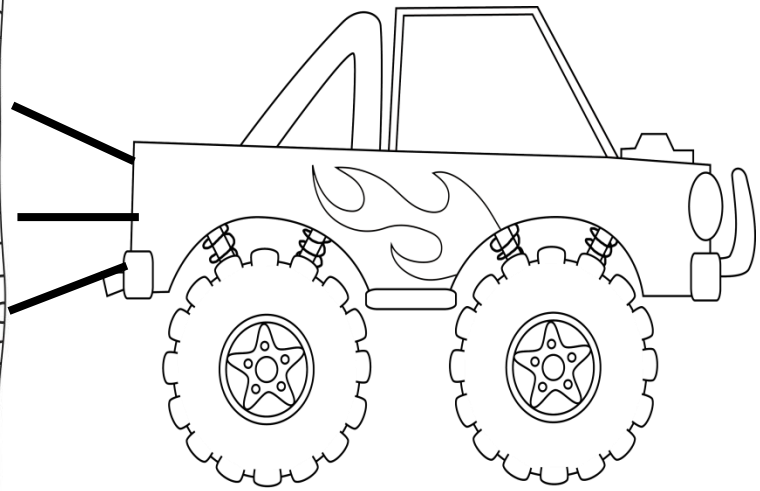
Objects can move round and round.

© Little Miss Hypothesis



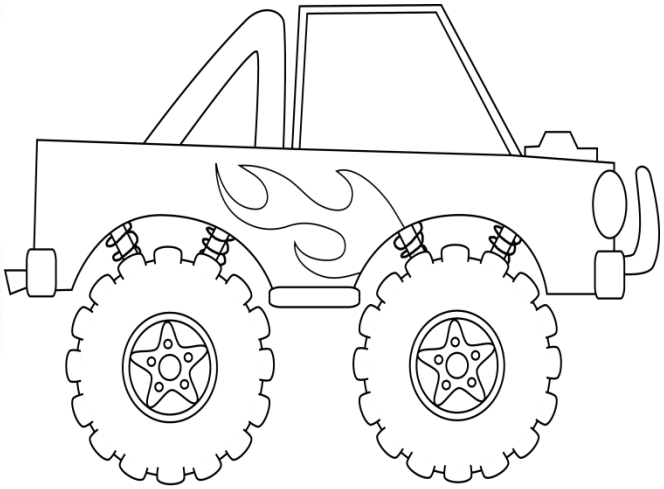
Objects can move fast.

© Little Miss Hypothesis



Objects can move fast.

© Little Miss Hypothesis



Objects can move slow.

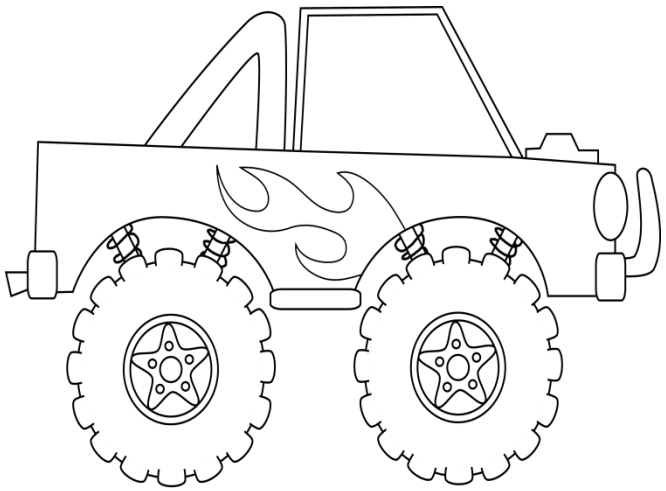
© Developing Young Scientists Force and Motion Unit

© Little Miss Hypothesis

Objects can move slow.

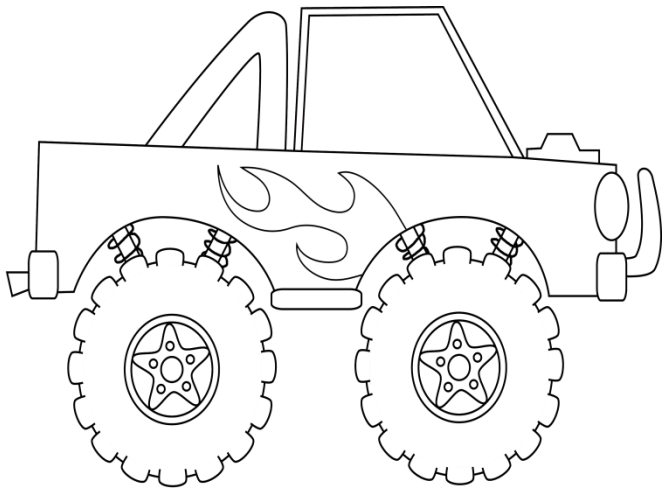
© Developing Young Scientists Force and Motion Unit

© Little Miss Hypothesis



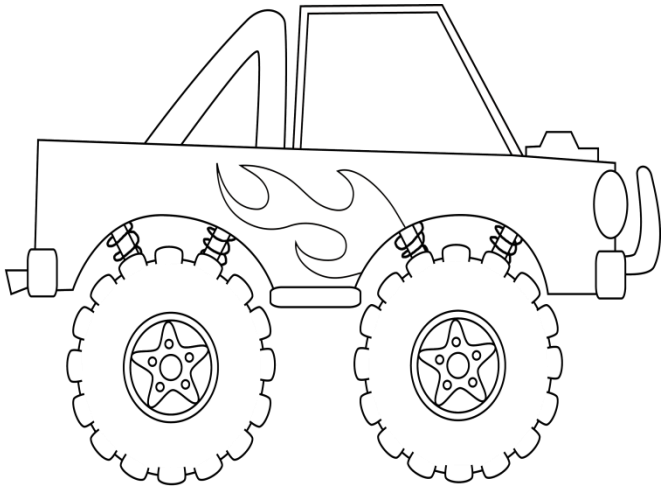
Straight line

© Little Miss Hypothesis



Straight line

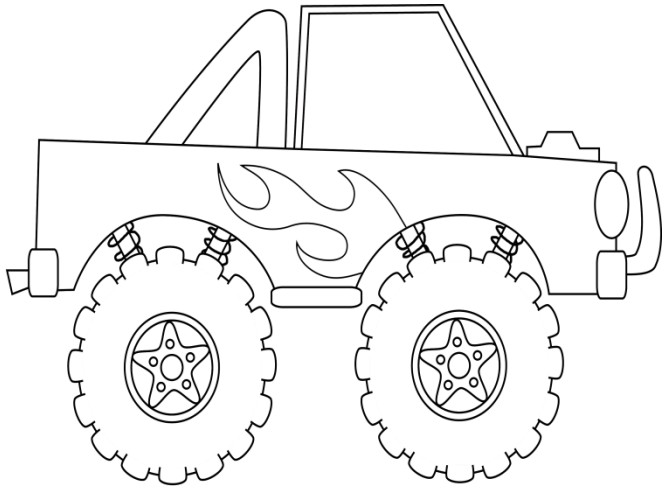
© Little Miss Hypothesis



vvvvvvvvv

Zigzag

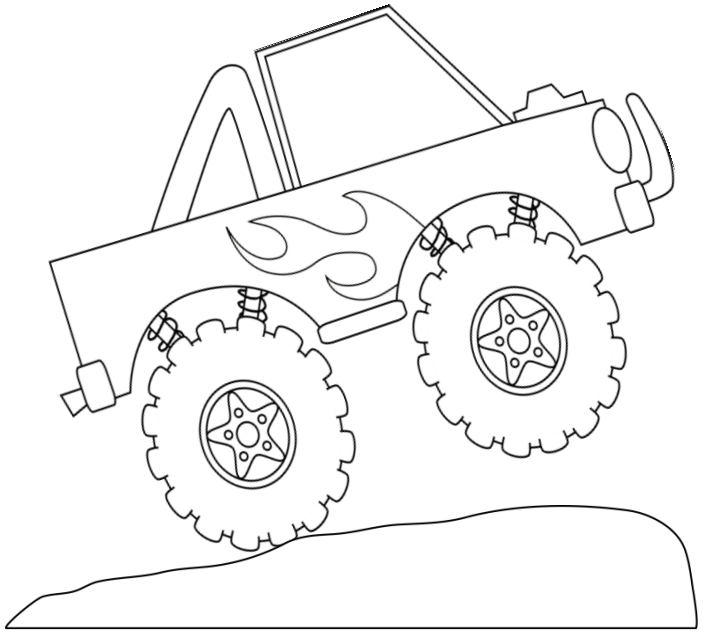
© Little Miss Hypothesis



vvvvvvvvv

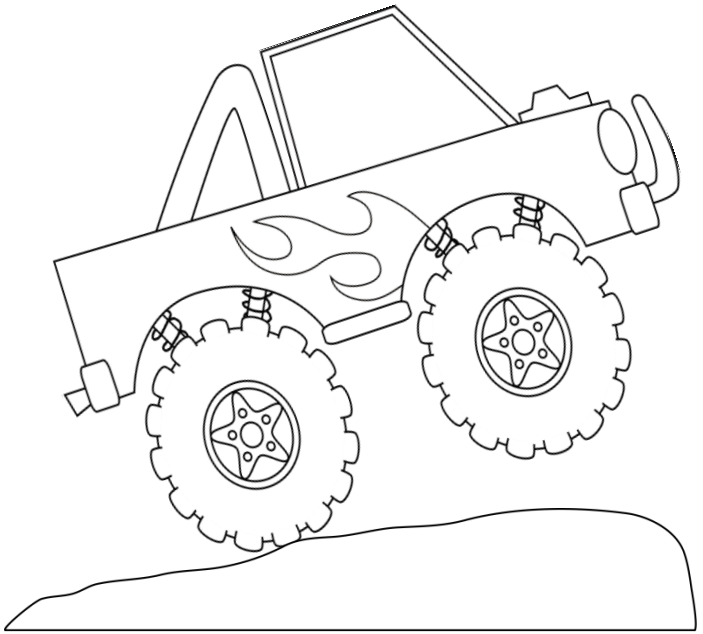
Zigzag.

© Little Miss Hypothesis



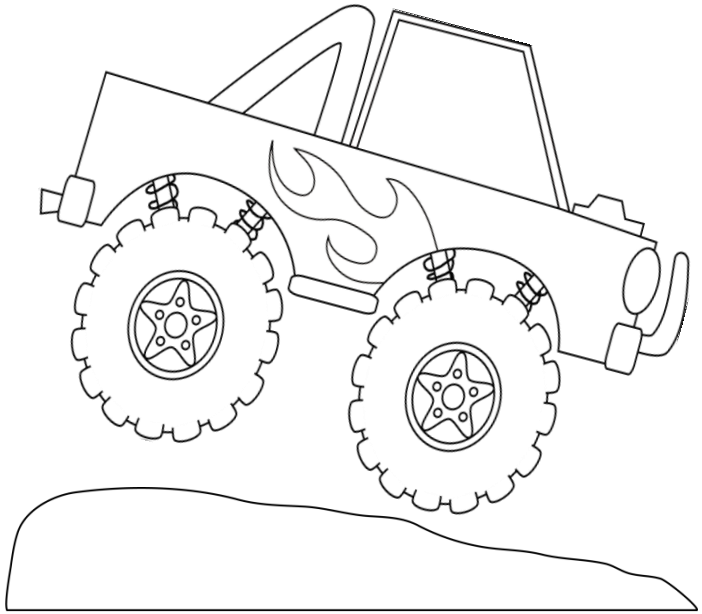
Up

© Little Miss Hypothesis



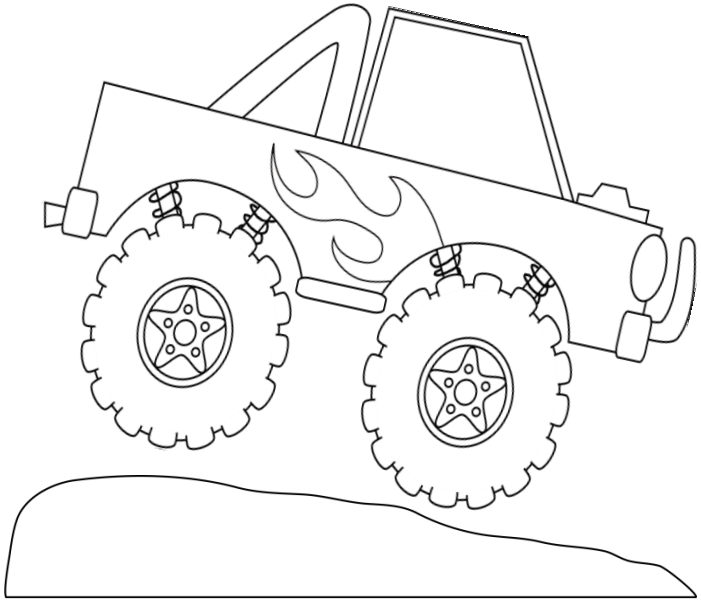
Up

© Little Miss Hypothesis



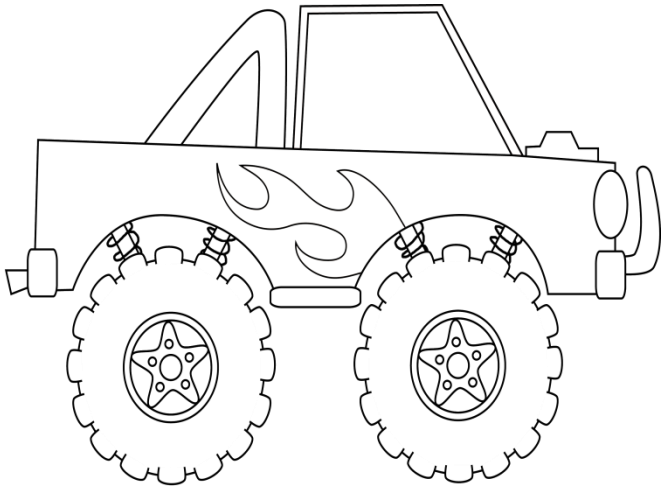
Down

© Little Miss Hypothesis



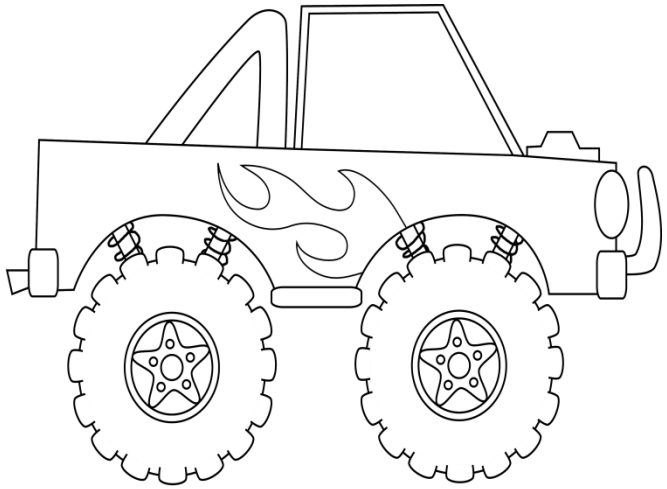
Down

© Little Miss Hypothesis



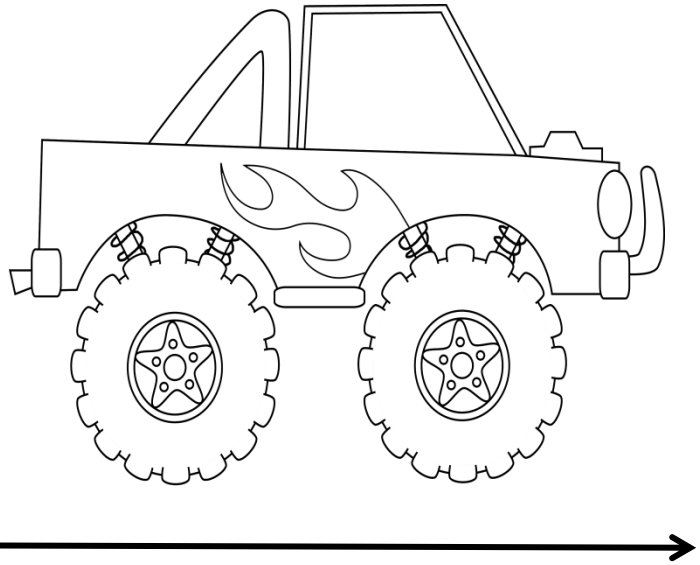
Back

© Little Miss Hypothesis



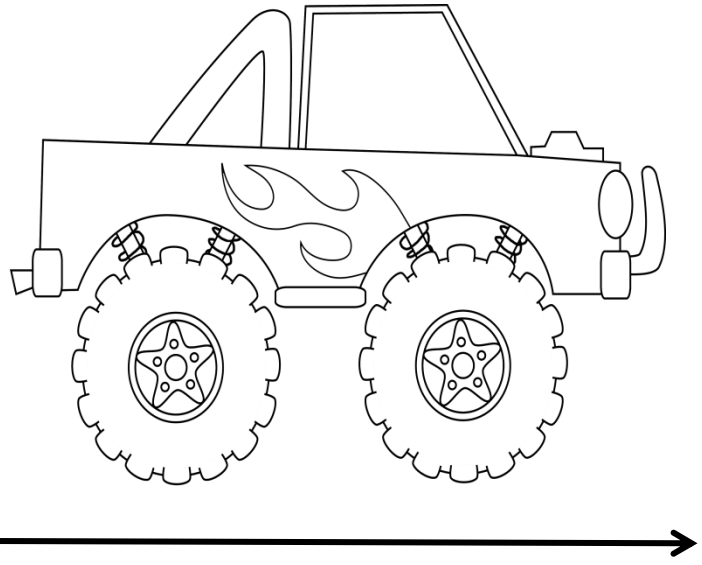
Back

© Little Miss Hypothesis



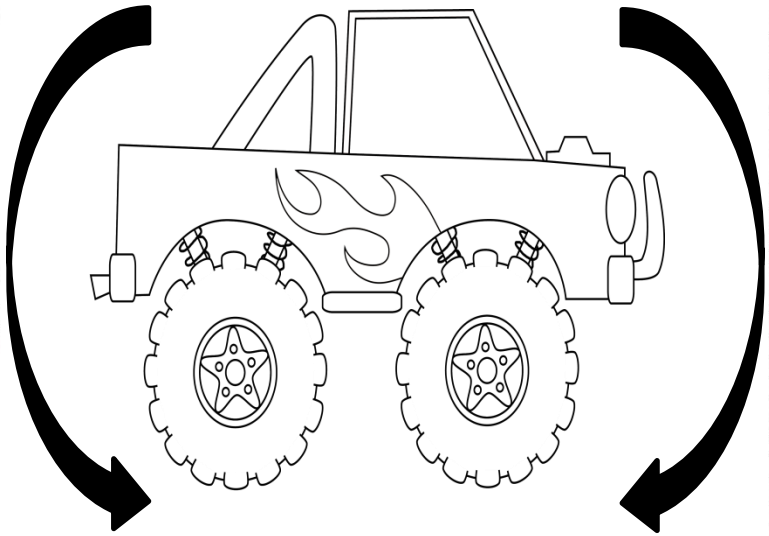
Forth

© Little Miss Hypothesis



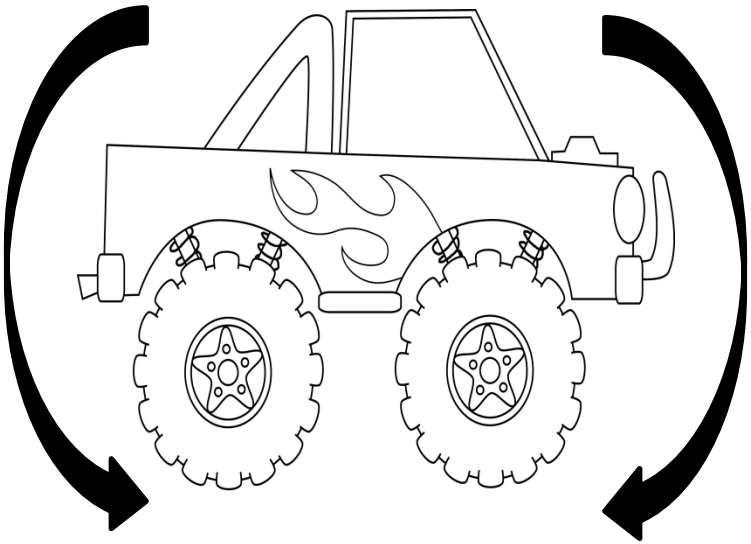
Forth

© Little Miss Hypothesis



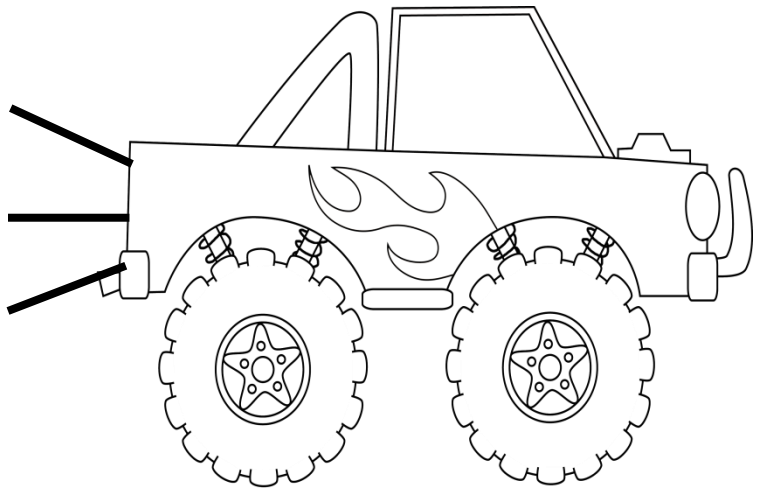
Round and round

© Little Miss Hypothesis



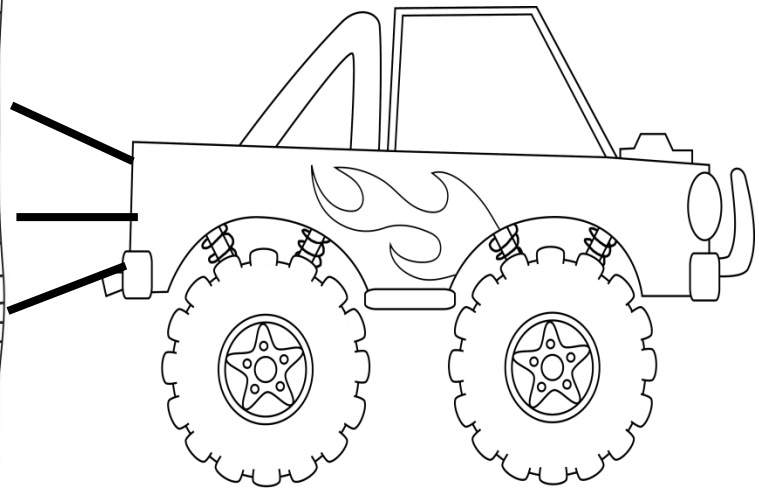
Round and round

© Little Miss Hypothesis



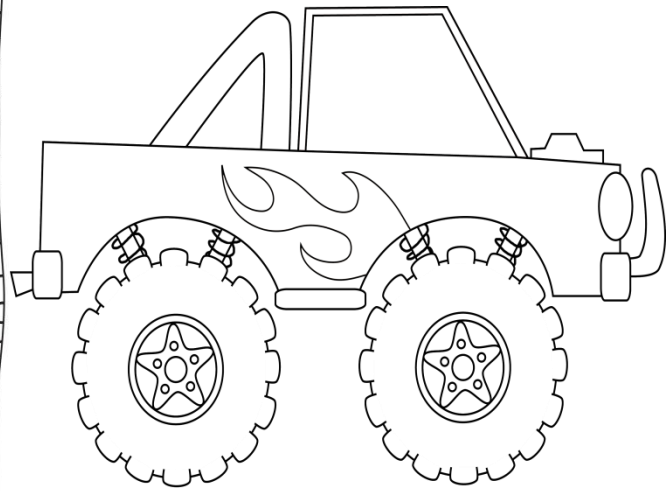
Fast

© Little Miss Hypothesis



Fast

© Little Miss Hypothesis



Slow

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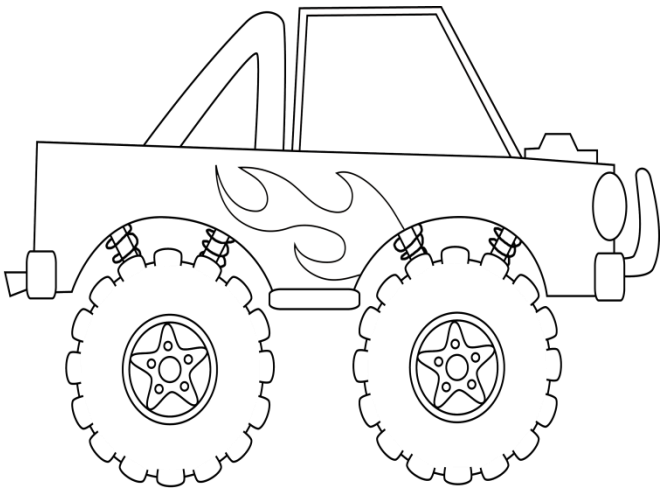

Slow

© Developing Young Scientists Force and Motion Unit

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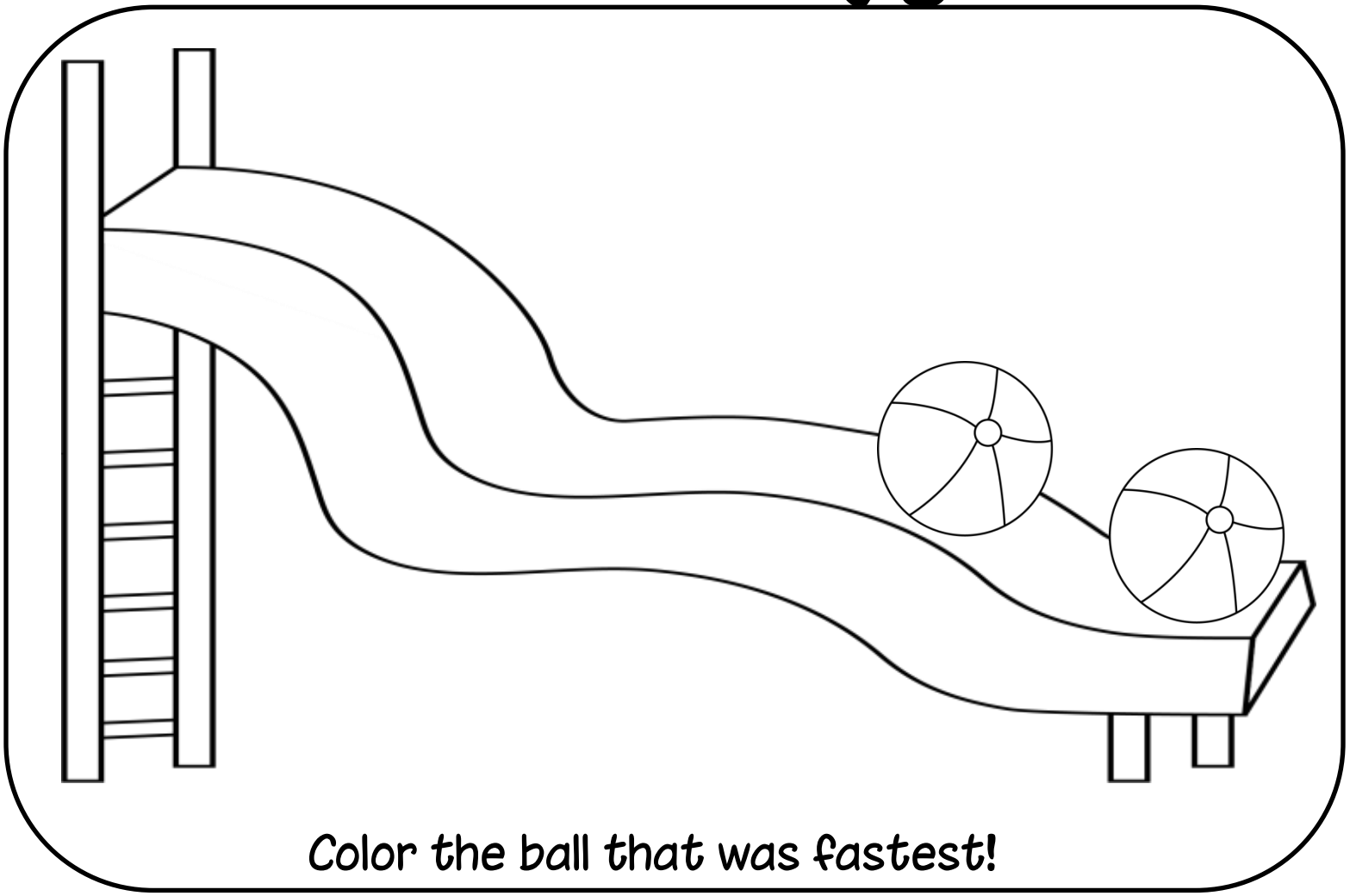
Fun With Field Investigations!

After Field Investigation Notebooking!

Scientist: Date:

Balls On The Playground!



Color the ball that was fastest!

© Little Miss Hypothesis

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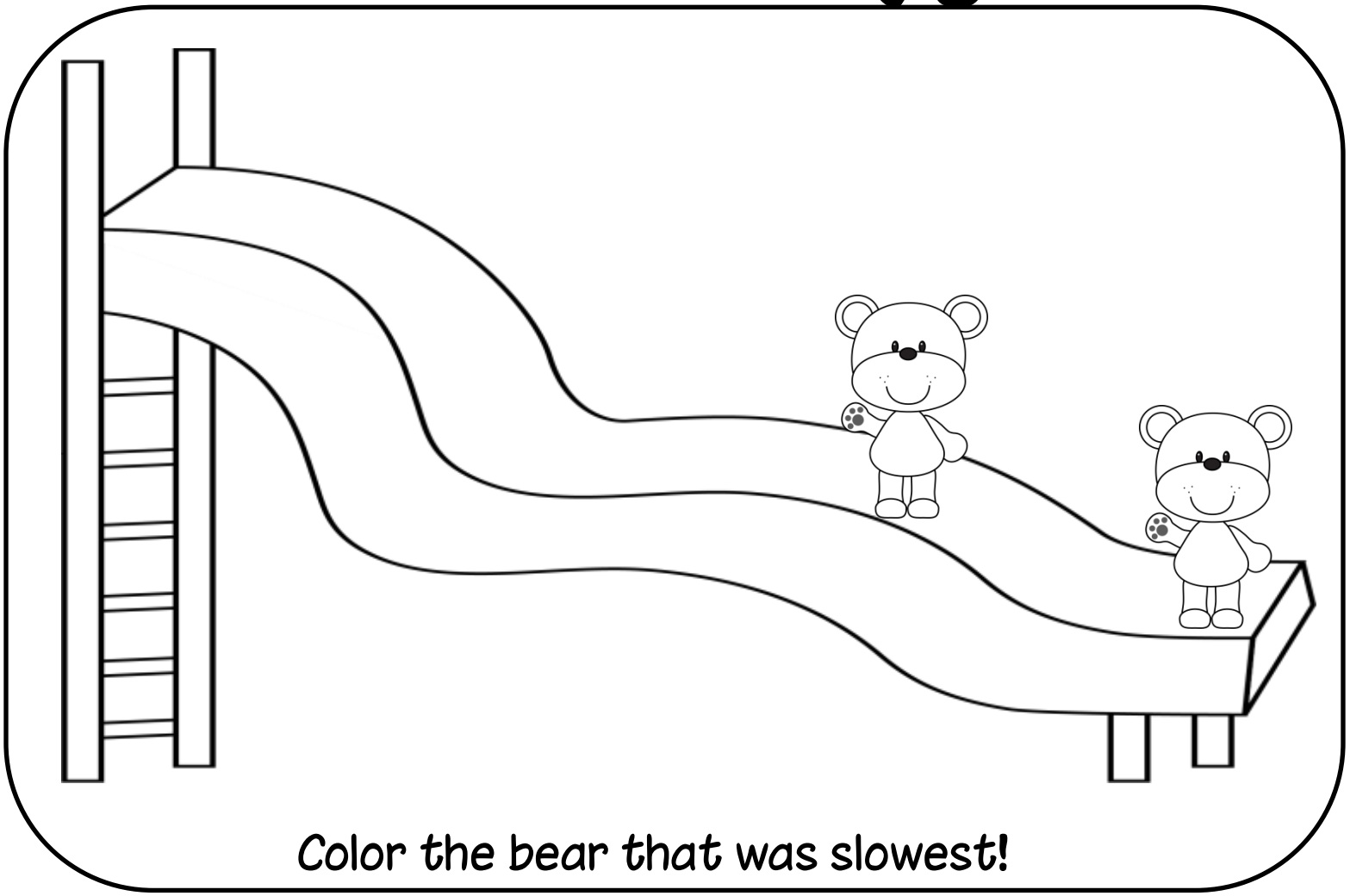
Objects can move!

Investigation Recording Sheet

Scientist: Date:

Bears On The Playground!



Color the bear that was slowest!

© Little Miss Hypothesis

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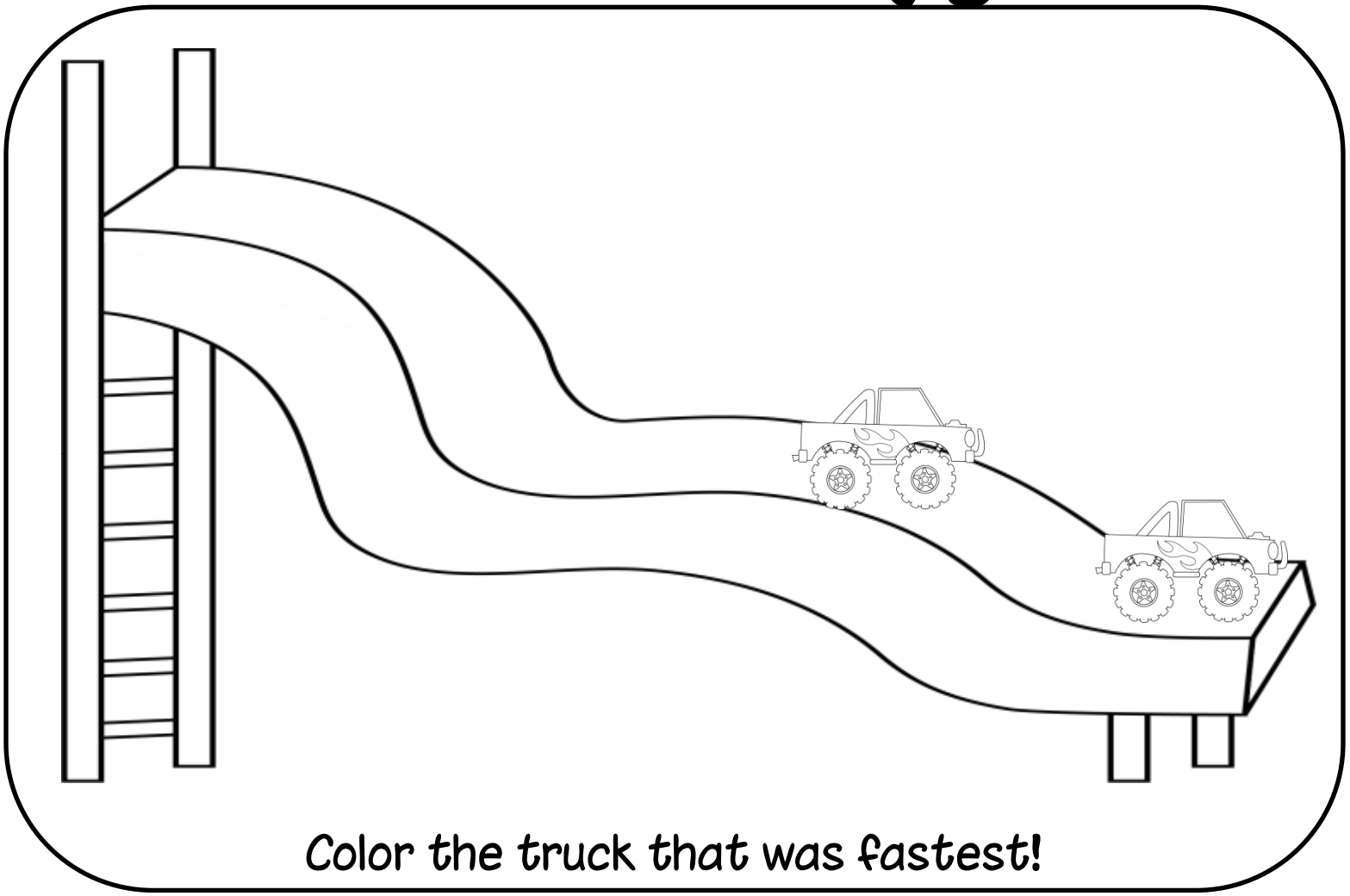
Objects can move!

Investigation Recording Sheet

Scientist: Date:

Trucks On The Playground!



Color the truck that was fastest!

© Little Miss Hypothesis

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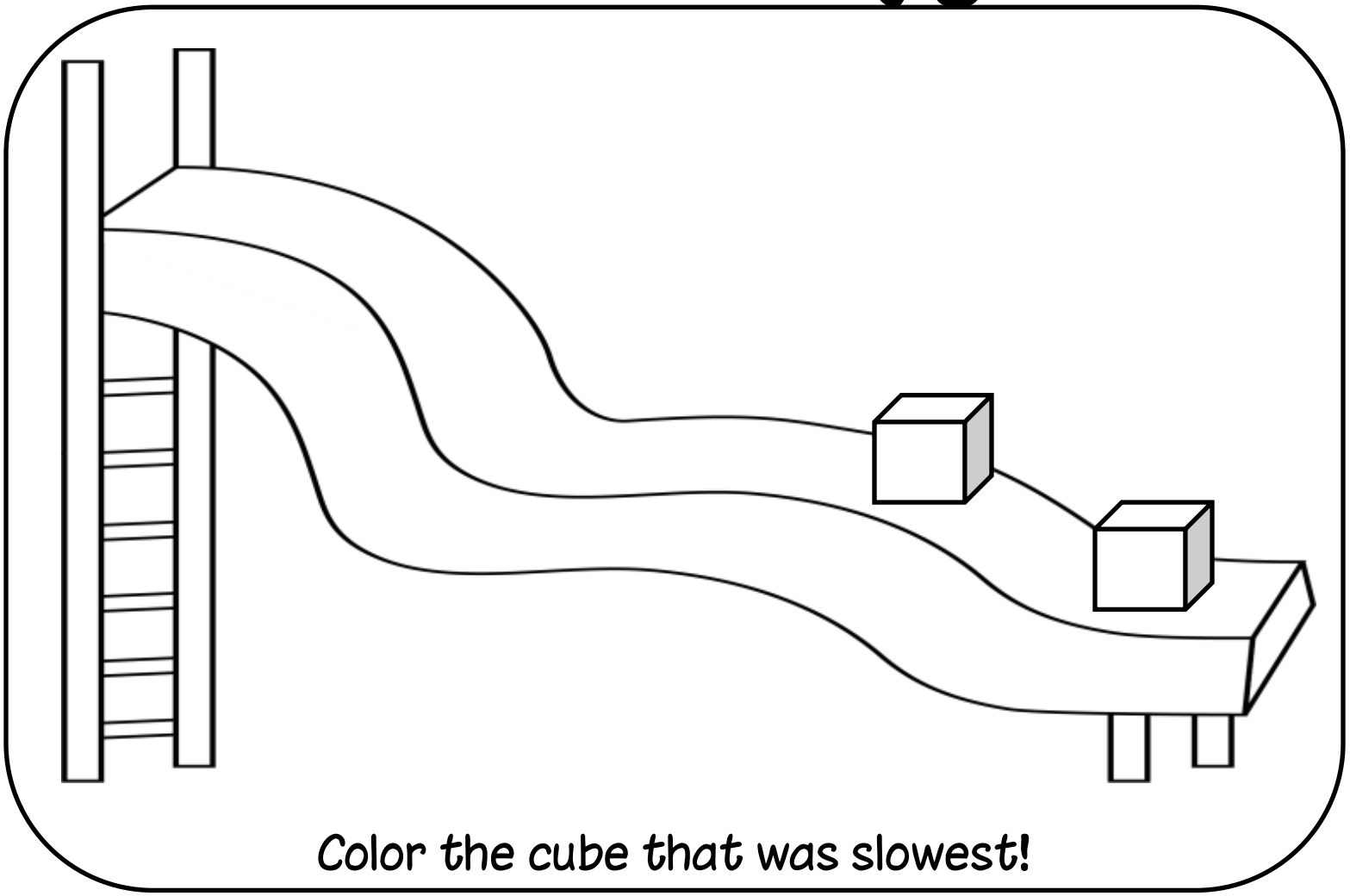
Objects can move!

Investigation Recording Sheet

Scientist: Date:

Cubes On The Playground!



Color the cube that was slowest!

© Little Miss Hypothesis

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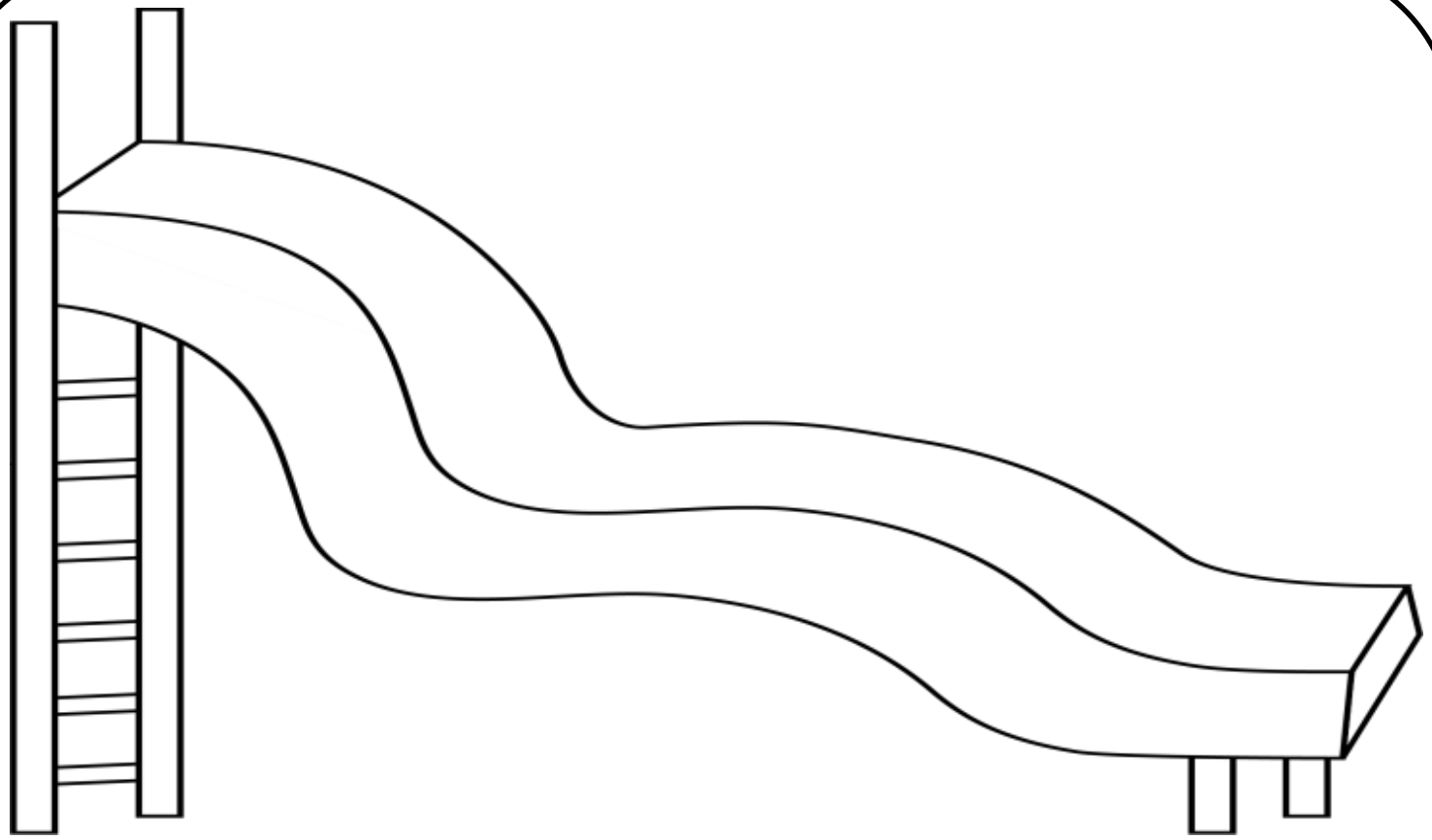
Objects can move!

Investigation Recording Sheet

Scientist: Date:

Conduct Your Own Investigation!



Label It ***fast*** or ***slow***!

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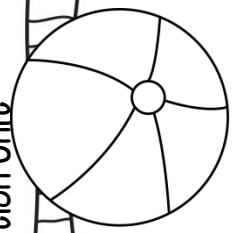
Objects can move!

Investigation Recording Sheet

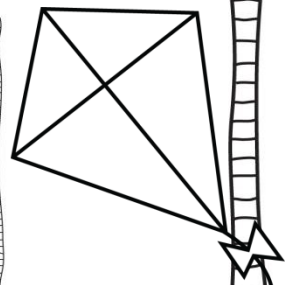
Scientist:

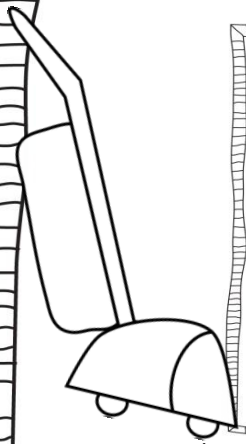
Date:

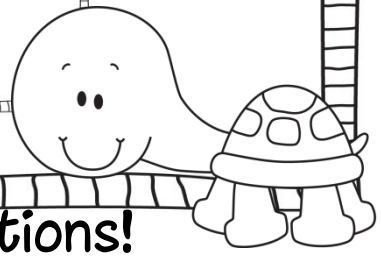
Objects On The Go
Is It Fast Or Is It Slow?



What is fast?	What is slow?
What is fast?	What is slow?







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Scientists set up investigations to answer questions!

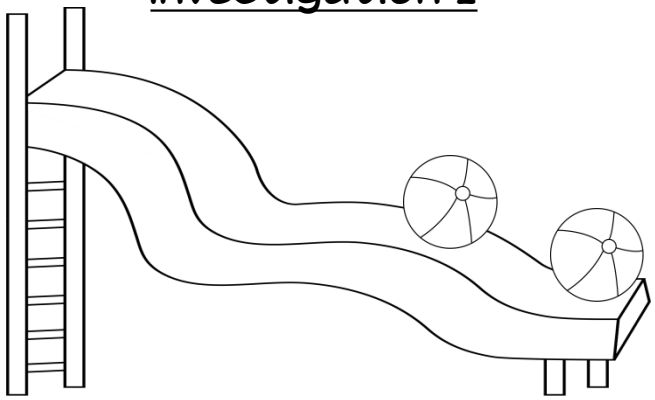
Scientist:

Date:

Balls On The Playground!

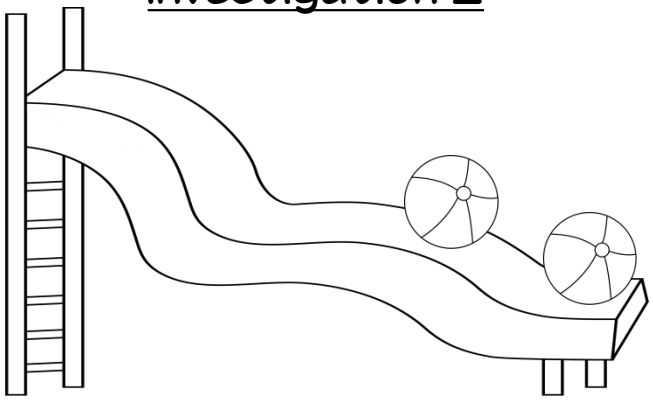
Force and Motion Field Investigation!

Investigation 1



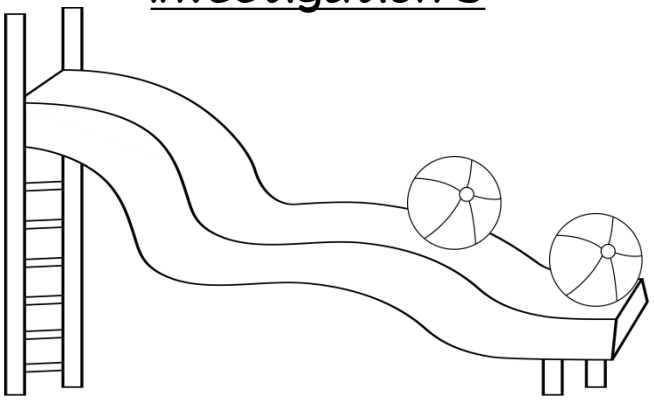
Color the ball that was fastest!

Investigation 2



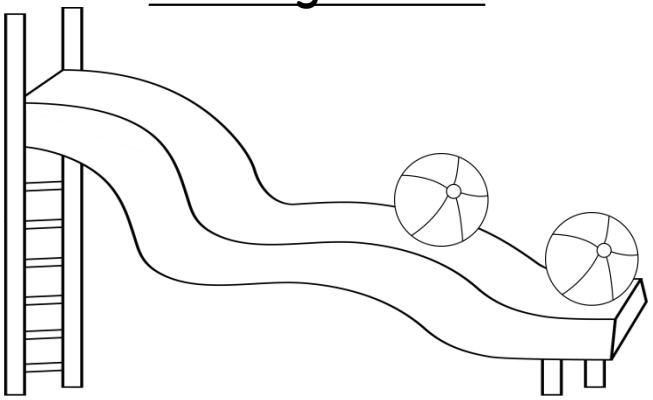
Color the ball that was fastest!

Investigation 3



Color the ball that was fastest!

Investigation 4



Color the ball that was fastest!

© Little Miss Hypothesis

Objects can move!

Investigation Recording Sheet

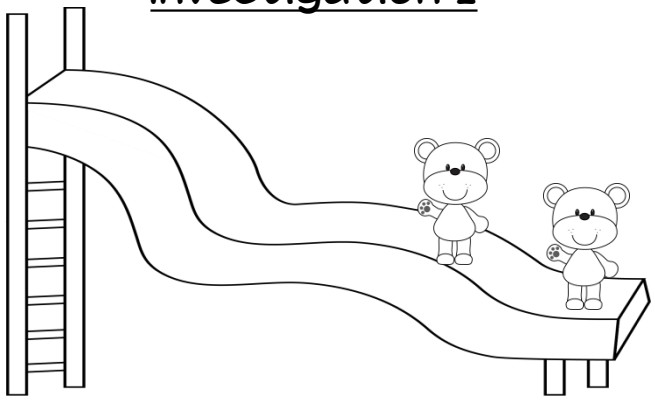
Scientist:

Date:

Bears On The Playground!

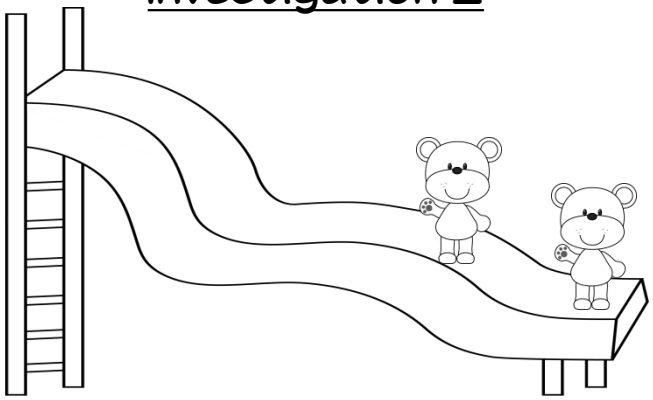
Force and Motion Field Investigation!

Investigation 1



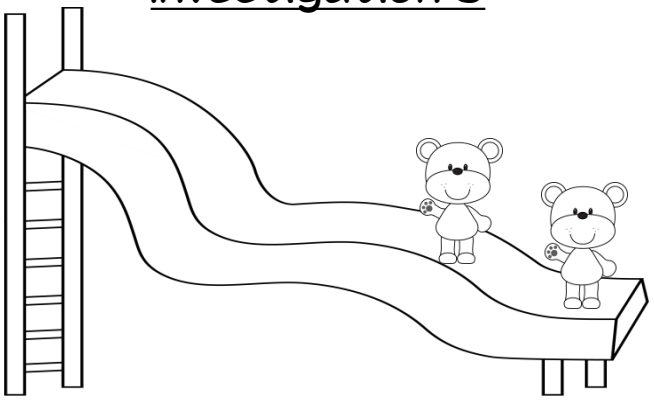
Color the bear that was slowest!

Investigation 2



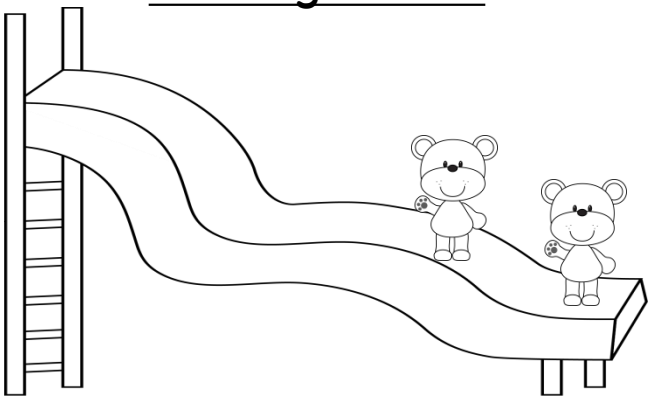
Color the bear that was slowest!

Investigation 3



Color the bear that was slowest!

Investigation 4



Color the bear that was slowest!

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Objects can move!

Investigation Recording Sheet

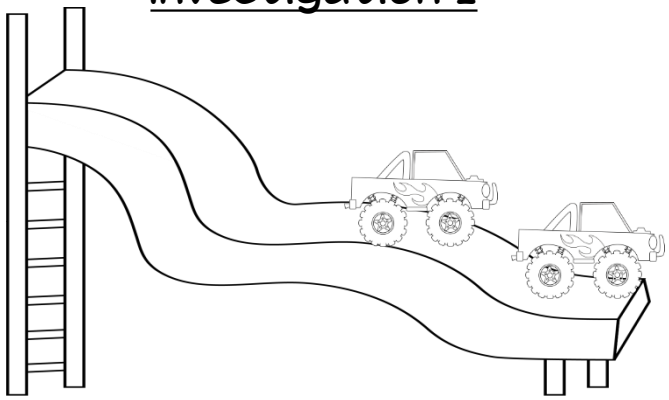
Scientist:

Date:

Trucks On The Playground!

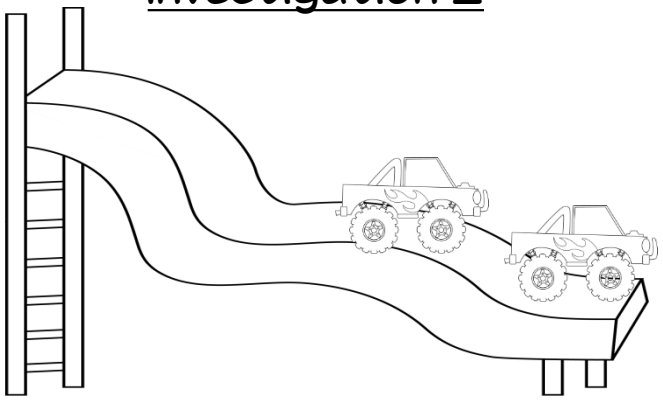
Force and Motion Field Investigation!

Investigation 1



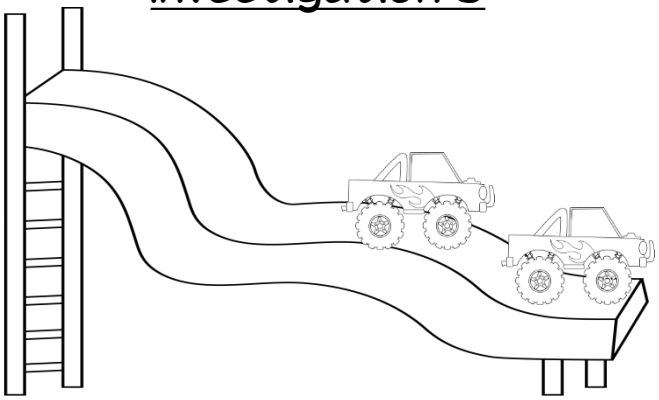
Color the truck that was fastest!

Investigation 2



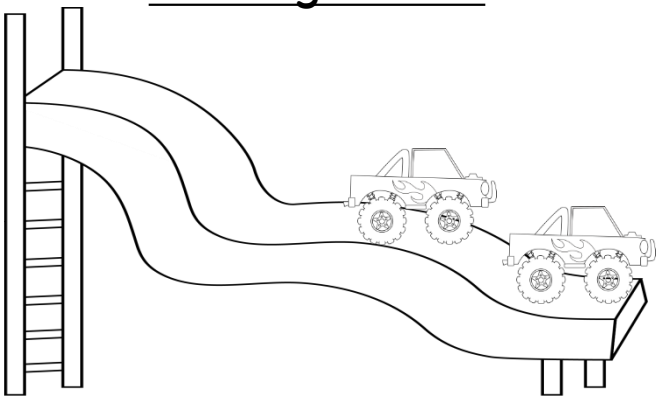
Color the truck that was fastest!

Investigation 3



Color the truck that was fastest!

Investigation 4



Color the truck that was fastest!

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Objects can move!

Investigation Recording Sheet

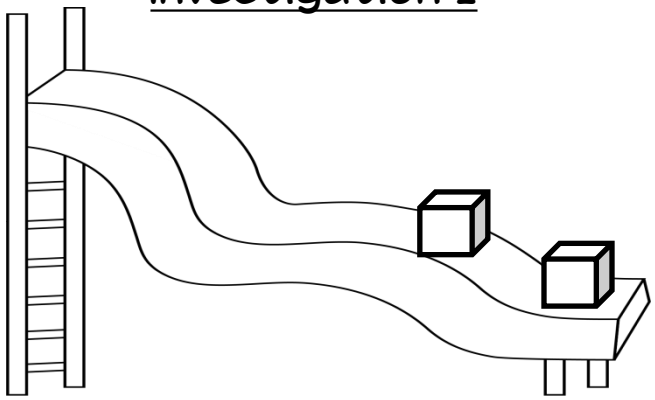
Scientist:

Date:

Cubes On The Playground!

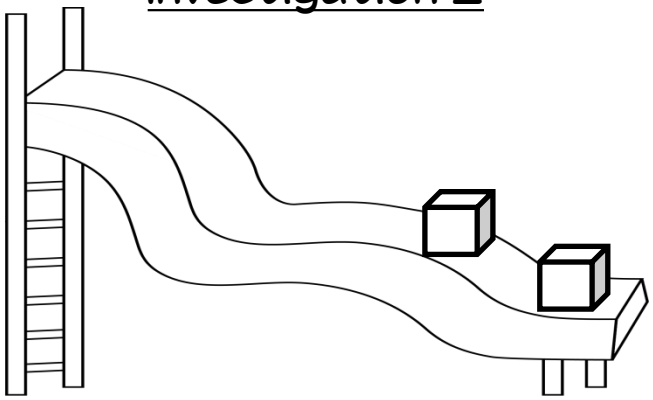
Force and Motion Field Investigation!

Investigation 1



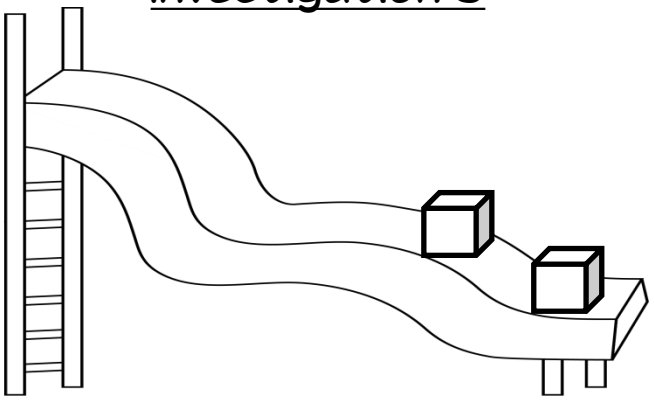
Color the cube that was slowest!

Investigation 2



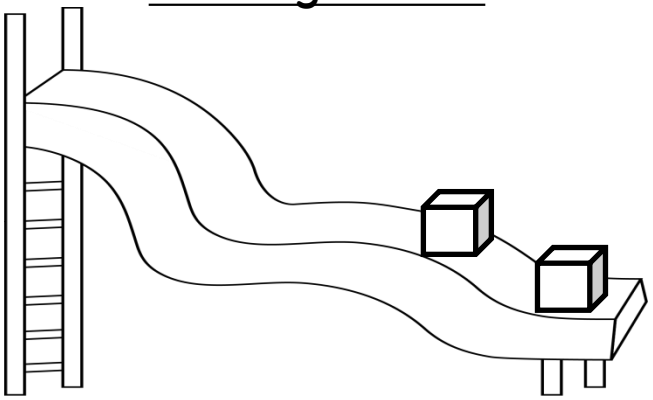
Color the cube that was slowest!

Investigation 3



Color the cube that was slowest!

Investigation 4



Color the cube that was slowest!

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Objects can move!

Investigation Recording Sheet

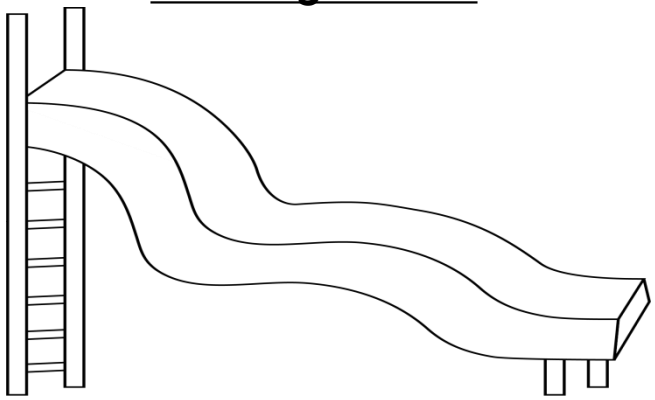
Scientist:

Date:

Conduct Your Own Investigation!

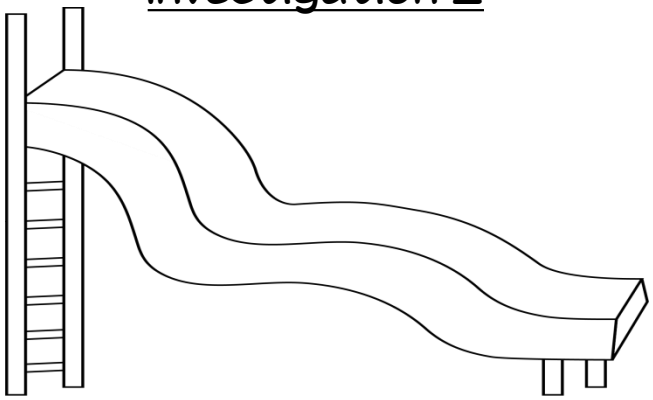
Force and Motion Field Investigation!

Investigation 1



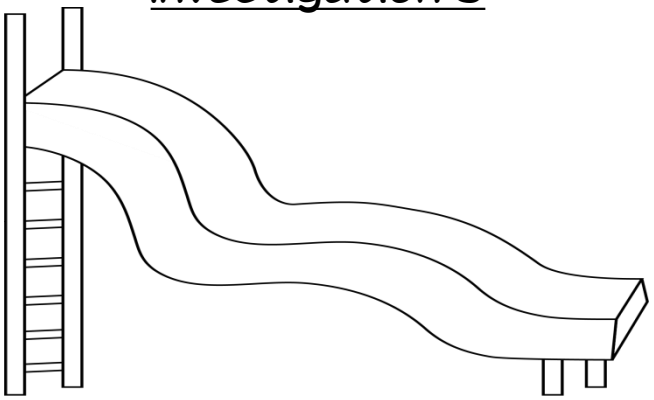
Label the objects **fast** or **slow**!

Investigation 2



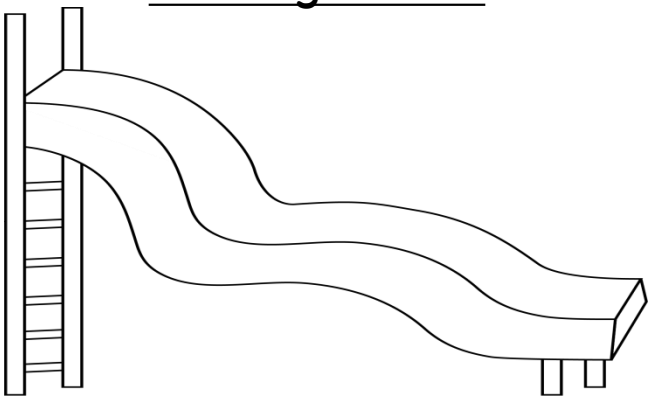
Label the objects **fast** or **slow**!

Investigation 3



Label the objects **fast** or **slow**!

Investigation 4



Label the objects **fast** or **slow**!

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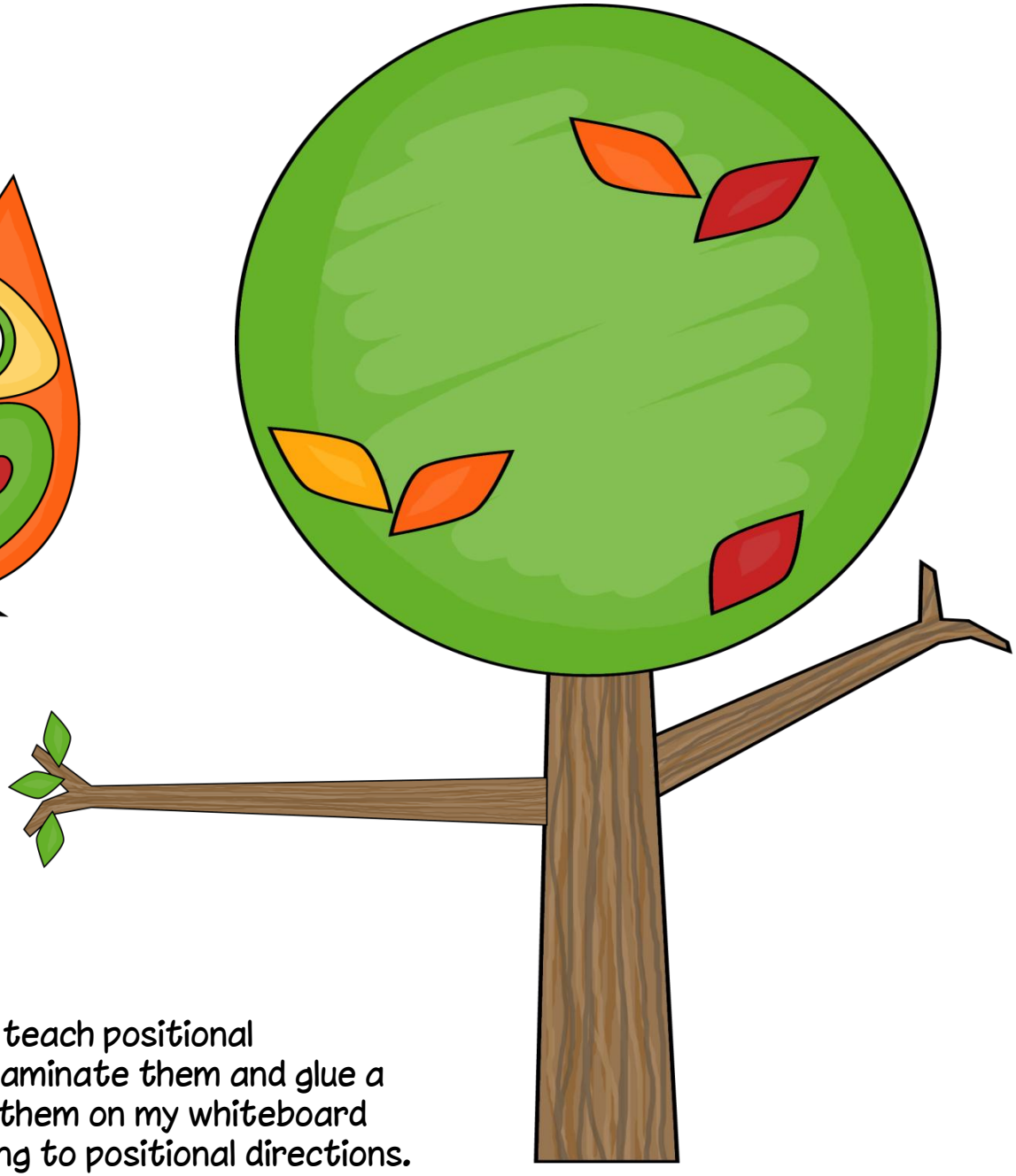
Objects can move!

Investigation Recording Sheet

Where is Hooty?
Position and Location Activities.
I print a colored copy of the Where is Hooty? Big book and use it as we discuss position and location vocabulary. I copy, laminate and cut out a copy of the props and glue magnets on the back of the pieces. As a quick review we move Hooty and discuss positional terms as he moves. I also make a copy for our class library. At the end of the unit I use the props with an assessment checklist to monitor the vocabulary introduced.



I use these graphics to help teach positional vocabulary. I print, cut and laminate them and glue a magnet on the back. I keep them on my whiteboard and we move Hooty according to positional directions.

Position and Location

above	below	behind
in front of	beside	inside
outside	between	left right

Where Is Hooty?

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Where Is Hooty?

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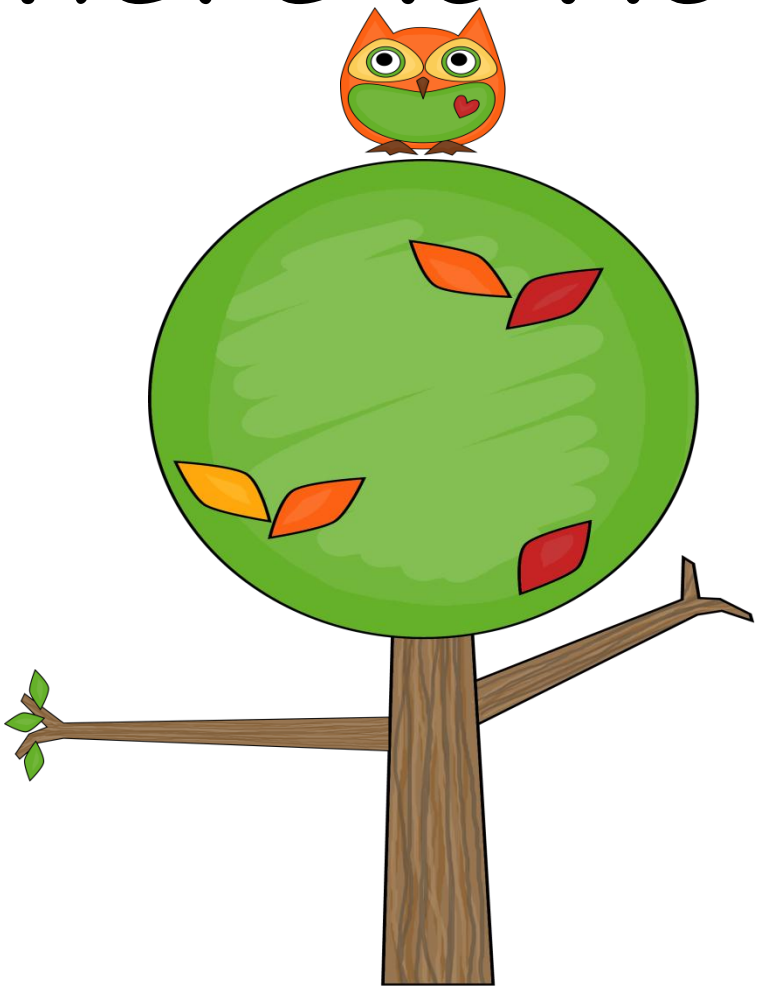
Where Is Hooty?



Above the tree.

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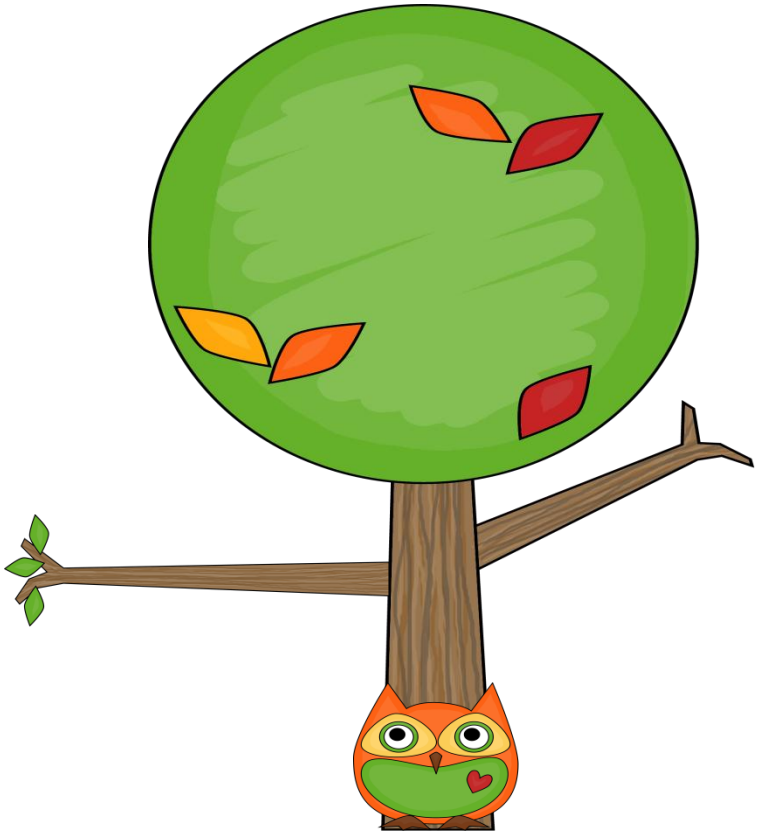
Where Is Hooty?

Below the tree.

© Little Miss Hypothesis

Where Is Hooty?



In front of the tree.

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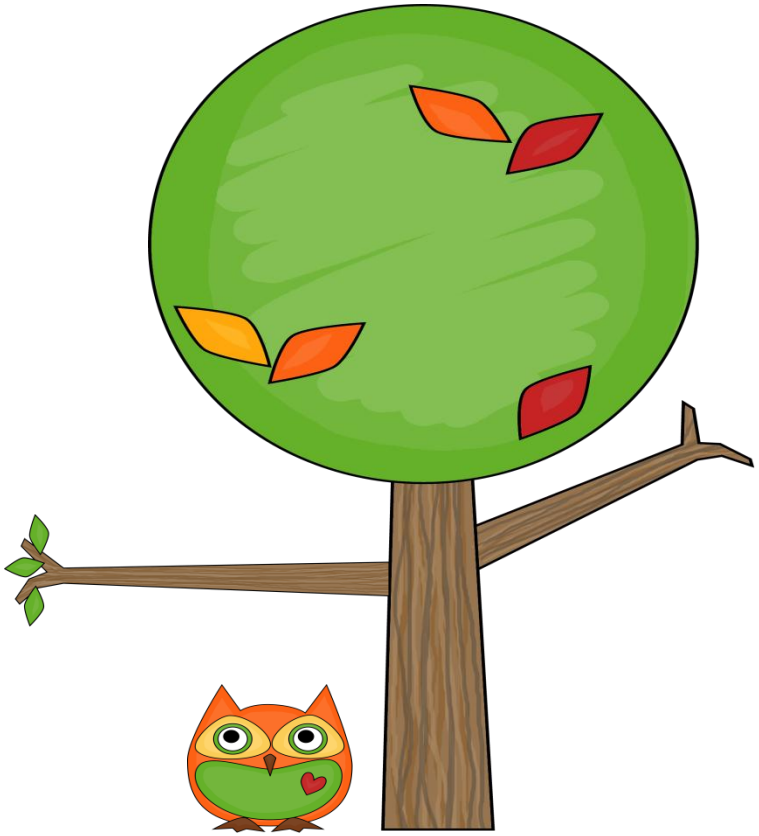
Where Is Hooty?



Beside the tree.

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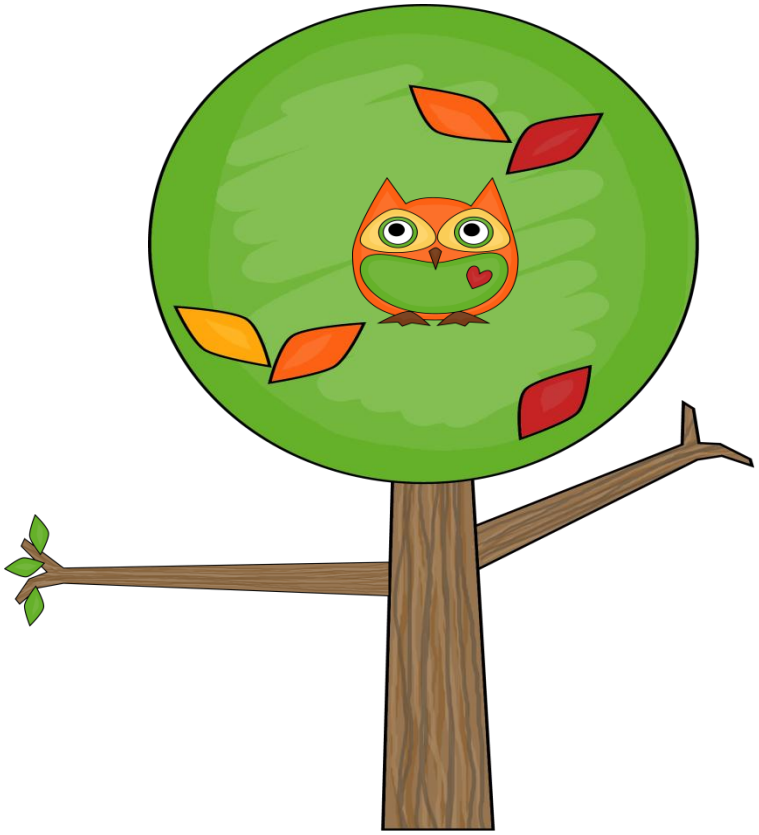
Where Is Hooty?



Inside the tree.

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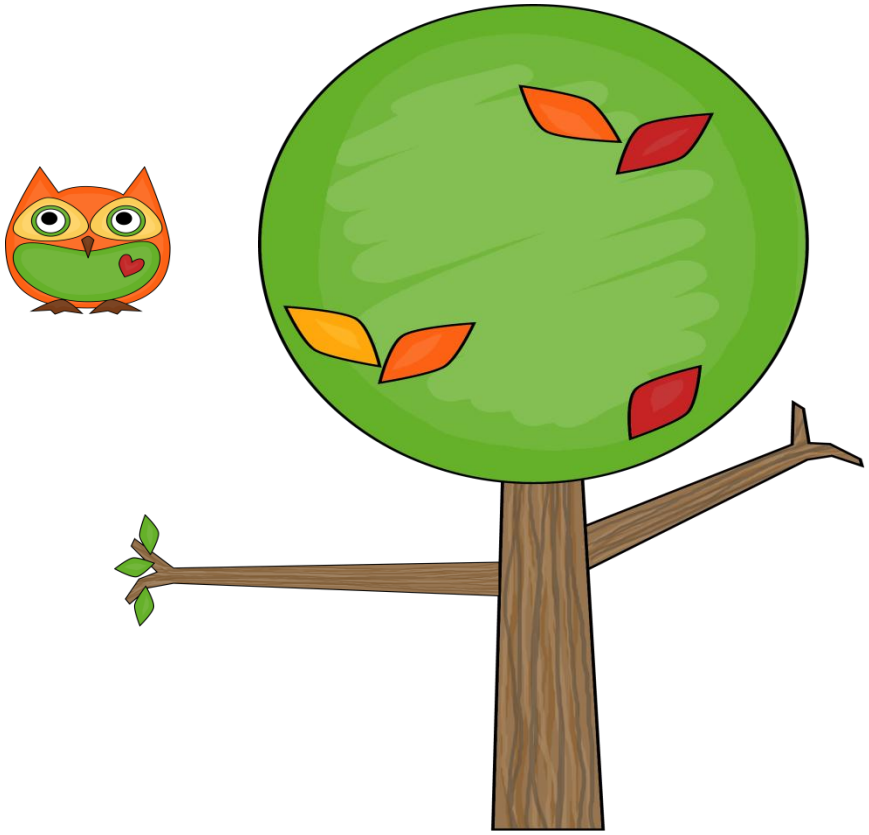
Where Is Hooty?



Outside the tree.

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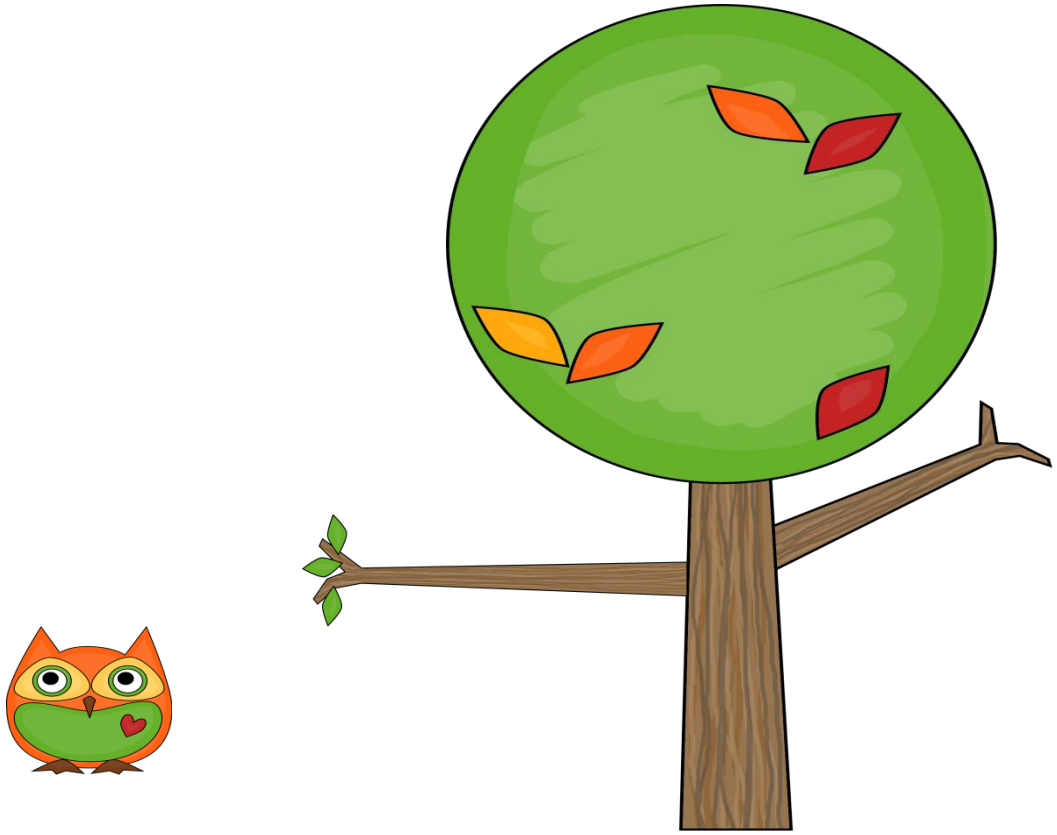
Where Is Hooty?



To the left of the tree.

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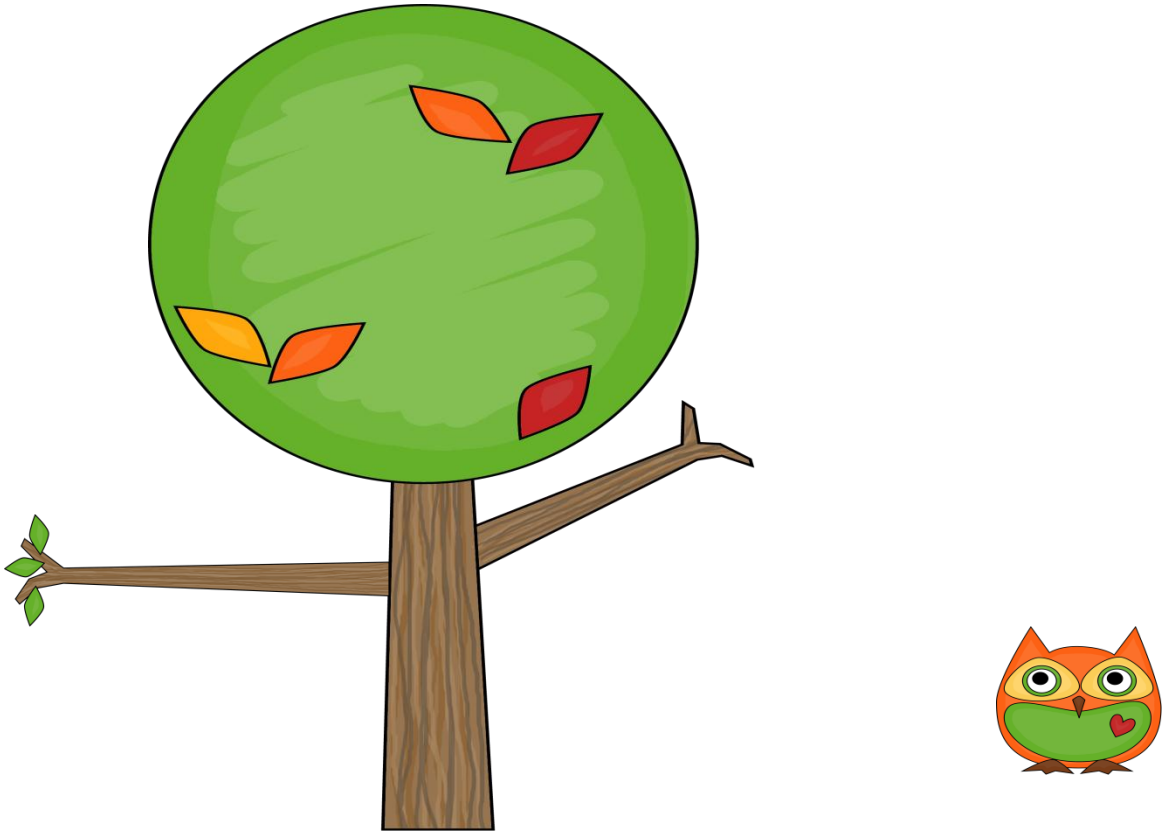
Where Is Hooty?



To the right of the tree.

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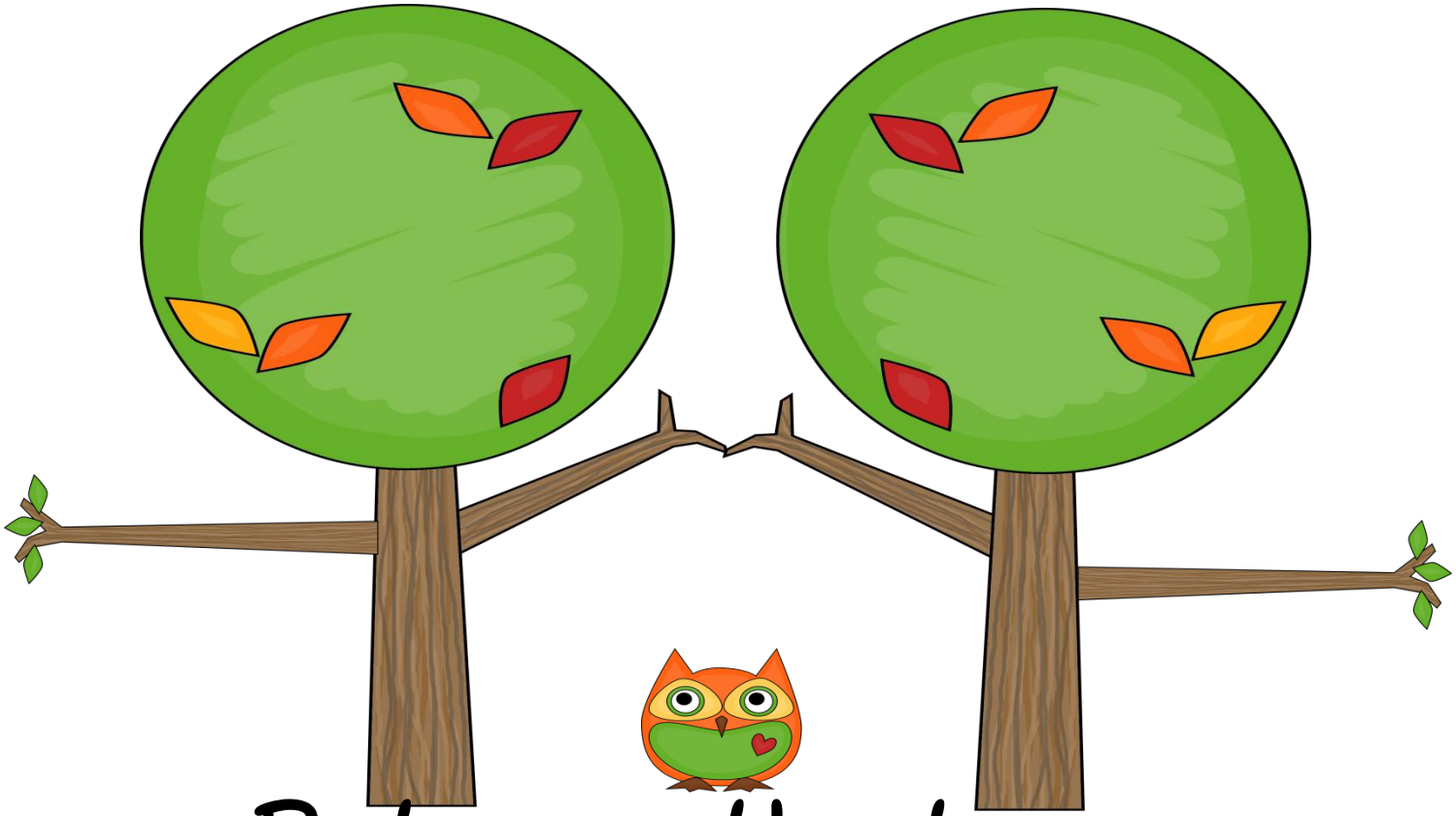
Where Is Hooty?



Between the trees.

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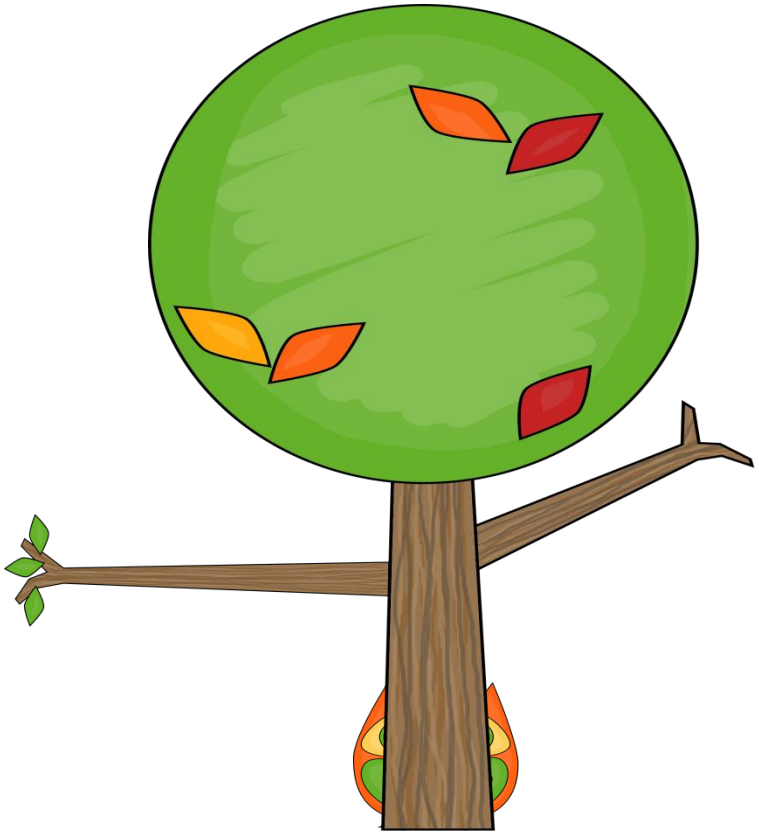
Where Is Hooty?



Behind the tree.

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