

# Winter

## Math Goofy Glyph

*If your answers are wrong, you might  
make a seriously silly snowman!*

3<sup>rd</sup>  
grade



*Common Core aligned*

**Yvonne and Brian Crawford**

# Introduction

The **Winter Math Goofy Glyph** is an activity with which students can hone their abilities in mathematics while putting together a fun art project that you can display on your classroom wall. Whether your students answer the questions right or wrong will dictate the way their glyphs turn out in this potentially silly activity.

At the back of this booklet are **templates** that your students can use to help design their glyphs; otherwise, they can choose to create their own artwork.

Also at the back of a book is a **graph** that you can use to compare glyph results among the students in your class.

For free worksheets, lesson plans and activities visit [www.mixminder.com](http://www.mixminder.com).

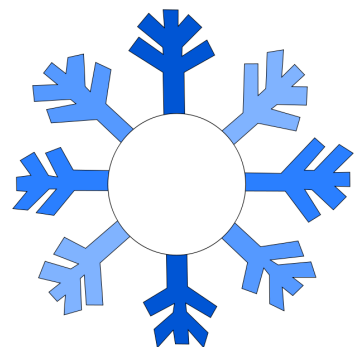
# Instructions

As you answer the questions in this winter glyph, you will be instructed to build a fun winter snowman. If you get your answers right, your snowman will look like you made him in outside after a good snowfall. But if you get your answers *wrong*, your snowman might turn out to look very silly indeed.

Note that the first three questions in the glyph will serve as the base figure for your snowman... first you will “roll” the bottom of your snowman, then the snowman’s torso, and then his or her head.

Note that in the glyph the instructions will read “snowman”, but your snowman might very well be a snow **woman**! It’s totally up to you.

Have a fun and *frigid* winter season!



# Common Core Standards Covered in This Booklet

**3.OA.7** Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that  $8 \times 5 = 40$ , one knows  $40 \div 5 = 8$ ) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.

**3.NBT.2** Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.



Question #1: What is your favorite part of winter?

<b>all of the snow, ice and cold weather</b>	$5 \times 4 =$
<b>the holidays, of course</b>	$3 \times 6 =$

What is your answer? This piece will be the **bottom** third of your snowman.

**Important note:** questions in this glyph will tell you how to build your snowman, but if you like, you can make a *snow woman* instead! The choice is up to you.

<b>If your answer is 18 →</b>	use a big, round snowball and add some large blue buttons
<b>If your answer is 20 →</b>	use a big, round snowball and add some large red buttons
<b>If your answer is neither of those →</b>	use a big, square snowball and decorate it with bright pink stripes

Question #2: What is your favorite winter sport?

<b>skiing or snowboarding</b>	$151 + 25 + 60 =$
<b>ice skating, except when I fall!</b>	$161 + 24 + 70 =$
<b>just running and jumping in the snow</b>	$171 + 26 + 50 =$

What is your answer? Use this piece for the **middle** third of your snowman.

<b>If your answer is 247</b> —>	use a medium-sized, round snowball and add black buttons
<b>If your answer is 255</b> —>	use a medium-sized, round snowball and add red buttons
<b>If your answer is 236</b> —>	use a medium-sized, round snowball and add blue buttons
<b>If your answer is a different answer—&gt;</b>	use a medium-sized, square snowball and cover it with orange polka-dots

Question #3: Which month in winter is your favorite?

<b>the last part of December</b>	$389 - 186 =$
<b>January</b>	$397 - 188 =$
<b>February</b>	$398 - 161 =$
<b>first part of March</b>	$396 - 159 =$

What is your answer? Use this piece for the **top** third (the head) of your snowman.

<b>If your answer is 237</b> →	use a small, round snowball and add two pieces of black coal for eyes
<b>If your answer is 209</b> →	use a small, round snowball and add two grey rocks for eyes
<b>If your answer is 203</b> →	use a small, round snowball and add two big peppermint candies for eyes
<b>If your answer is 237</b> →	use a small, round snowball and add two big blue buttons for eyes
<b>If your answer is a different answer</b> →	use a small, square snowball and add two donuts for eyes

Question #4: What is your favorite wintery drink?

hot chocolate	$8 \times 2 =$
hot tea	$6 \times 4 =$
warm milk	$7 \times 3 =$

What is your answer?

<b>If your answer is 24</b> →	use a long, thin carrot for your snowman's nose
<b>If your answer is 16</b> →	use a short, thick carrot for your snowman's nose
<b>If your answer is 21</b> →	use a medium-sized, crooked carrot for your snowman's nose
<b>If your answer is a different answer</b> →	use a long, green pickle for your snowman's nose





Question #5: What is your favorite white winter item?

<b>snow, for sure!</b>	425 - 314 =
<b>icicles!</b>	525 - 413 =
<b>marshmallows!</b>	624 - 511 =
<b>all of the above!</b>	726 - 612 =

What is your answer?

<b>If your answer is 114 →</b>	put a black top hat on your snowman's head
<b>If your answer is 111 →</b>	put a warm winter hat on your snowman's head
<b>If your answer is 113 →</b>	put a straw farmer's hat on your snowman's head
<b>If your answer is 112 →</b>	put a Sherlock Holmes-style detective hat on your snowman's head
<b>If your answer is a different answer →</b>	put an upside-down bucket on your snowman's head

Question #6: What do you like to put in your hot chocolate?

<b>marshmallows</b>	$7 \times 6 =$
<b>mint leaves or nutmeg</b>	$4 \times 4 =$
<b>nothing... I just like to taste the chocolate!</b>	$8 \times 3 =$

What is your answer? Add this sort of mouth to your snowman.

<b>If your answer is 42 →</b>	use small pieces of coal to make a smiling mouth
<b>If your answer is 24 →</b>	use some twigs to make a smiling mouth
<b>If your answer is 16 →</b>	use some blueberries to make a smiling mouth
<b>If your answer is a different answer →</b>	use popsicle sticks to make a silly, zigzag mouth



Question #7: What do you like to build in the winter?

<b>a snow fort</b>	$510 + 326 + 10 =$
<b>an igloo</b>	$511 + 323 + 11 =$
<b>a snowman</b>	$510 + 322 + 12 =$

What is your answer?

<b>If your answer is 846 →</b>	use two long, thin branches to make your snowman's arms
<b>If your answer is 844 →</b>	use one long, thin branch and one short, thick branch to make your snowman's arms
<b>If your answer is 845 →</b>	use two short, thick branches to make your snowman's arms
<b>If your answer is a different answer →</b>	use two toy robot arms to make your snowman's arms

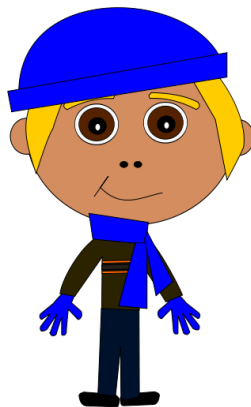


Question #8: What is your favorite piece of winter clothing?

<b>earmuffs are fun!</b>	$300 - 189 =$
<b>scarves are warm!</b>	$320 - 188 =$
<b>sweaters are cozy!</b>	$330 - 185 =$

What is your answer?

<b>If your answer is 145 →</b>	put a long, red scarf around your snowman's neck
<b>If your answer is 132 →</b>	put a short, green scarf around your snowman's neck
<b>If your answer is 111 →</b>	put a medium-sized, blue scarf around your snowman's neck
<b>If your answer is a different answer →</b>	put a big purple bowtie around your snowman's neck



Question #9: What is your favorite animal that lives in the snow?

<b>polar bears</b>	212 - 124 =
<b>penguins</b>	215 - 122 =
<b>huskies and sled dogs</b>	211 - 127 =
<b>another type of animal</b>	212 - 123 =

What is your answer?

<b>If your answer is 88 —&gt;</b>	put a broom in your snowman's hand
<b>If your answer is 84 —&gt;</b>	put a rake in your snowman's hand
<b>If your answer is 93 —&gt;</b>	put a snow shovel in your snowman's hand
<b>If your answer is 89 —&gt;</b>	put a garden hoe in your snowman's hand
<b>If your answer is a different answer—&gt;</b>	put an open umbrella in your snowman's hand

Question #10: The one thing I don't like about winter is...

<b>the weather</b>	$356 + 120 =$
<b>it gets dark really early</b>	$372 + 112 =$
<b>nothing... I love everything about winter!</b>	$368 + 118 =$

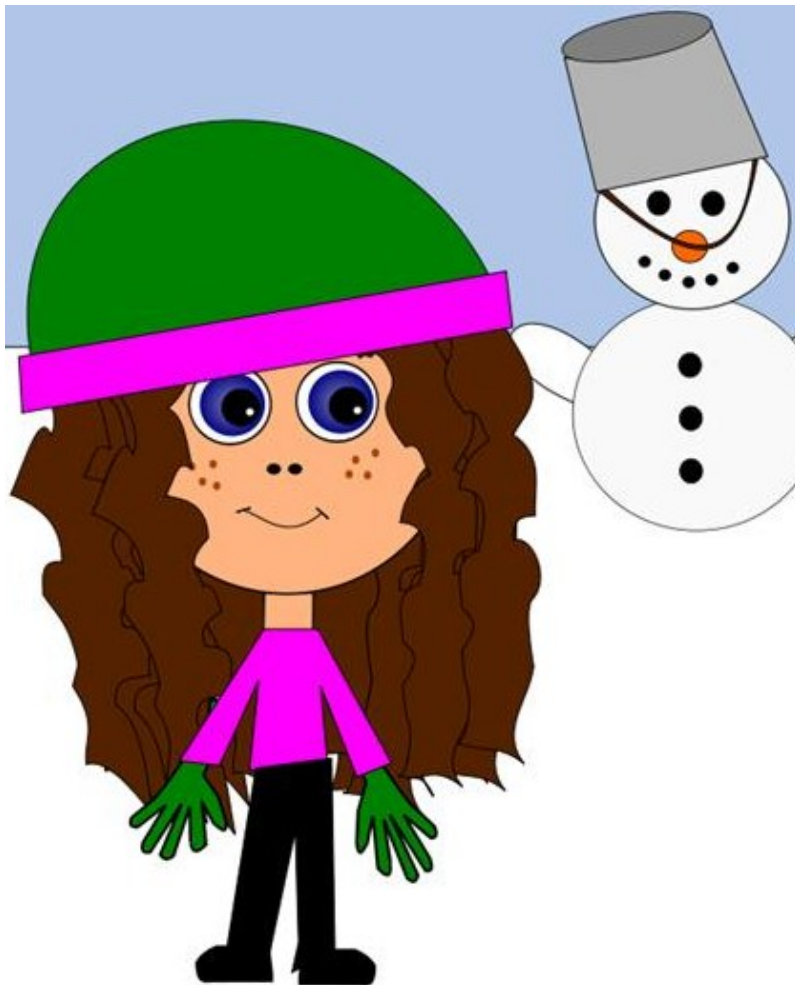
What is your answer?

<b>If your answer is 484</b> —>	title your glyph, "Have Fun in the Snow!"
<b>If your answer is 486</b> —>	title your glyph, "Stay Warm This Winter!"
<b>If your answer is 476</b> —>	title your glyph, "Have a Wonderful Winter!"
<b>If your answer is a different answer</b> —>	title your glyph, "Broccoli and Ice Cream for Everyone!"

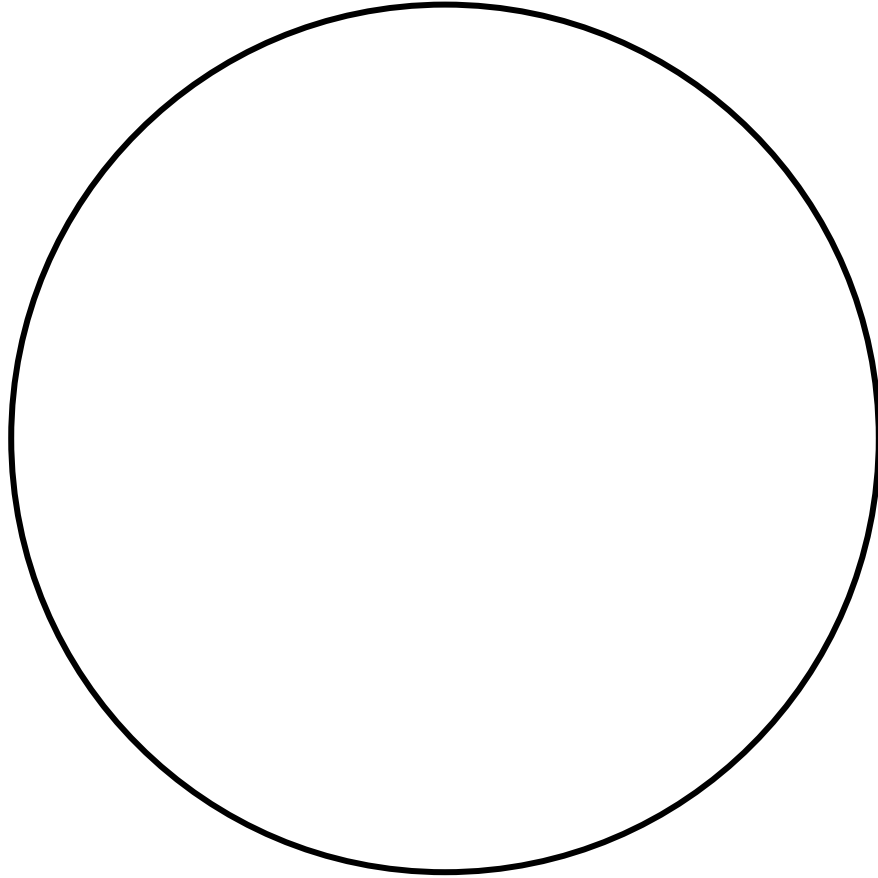


# Finishing the Winter Glyph

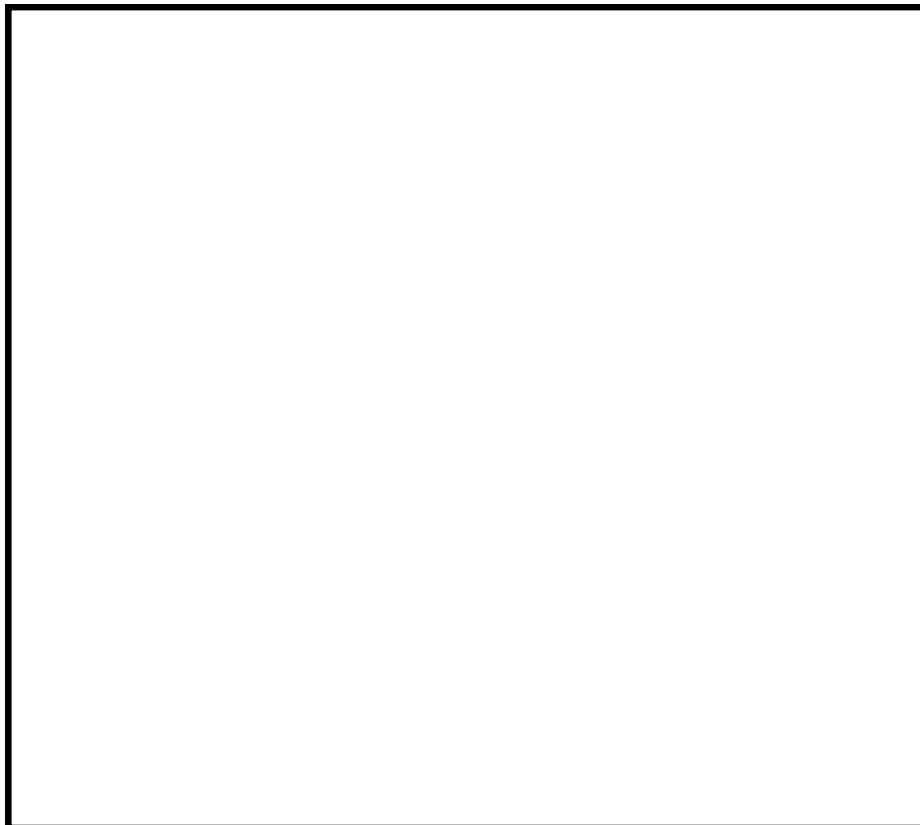
You are almost finished creating your **winter glyph**! Go ahead and put some finishing touches on your snowman (or snow woman), including extra articles of clothing, hair, some big, sturdy boots, and anything else you feel like adding. You can also add your name and write a short story about your snowman if you would like!



big, round snowball

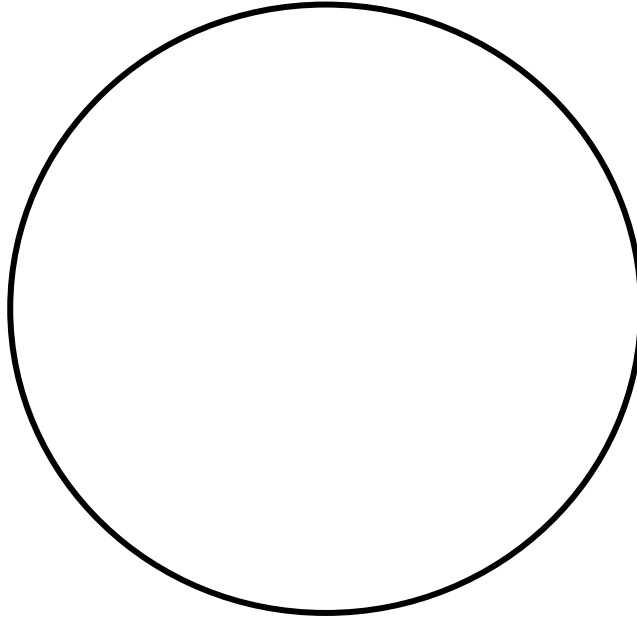


big, square snowball





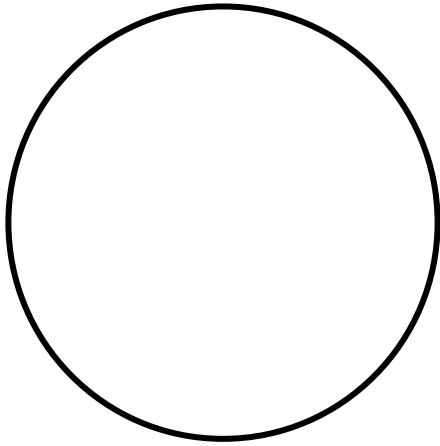
medium, round snowball



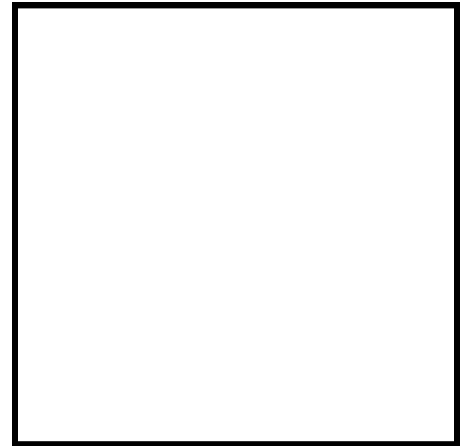
medium, square snowball



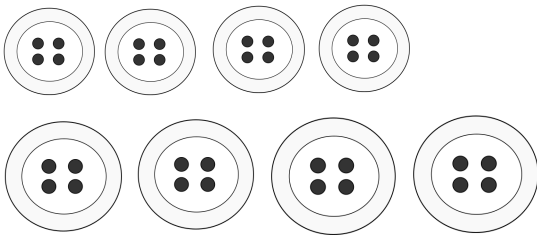
small, round snowball



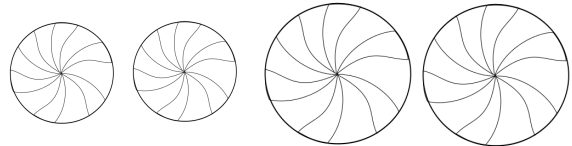
small, square snowball



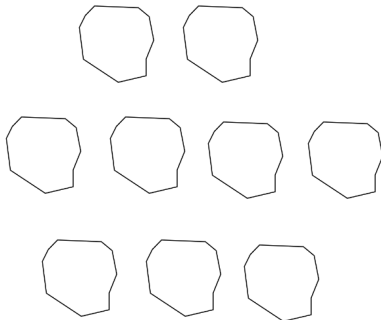
buttons



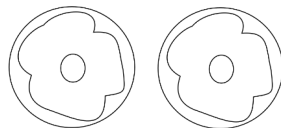
peppermint candies



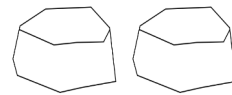
coals



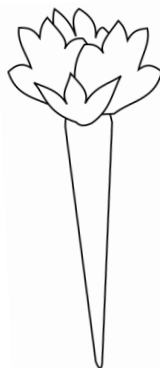
donuts



rocks



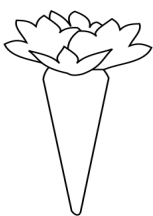
long carrot



crooked carrot



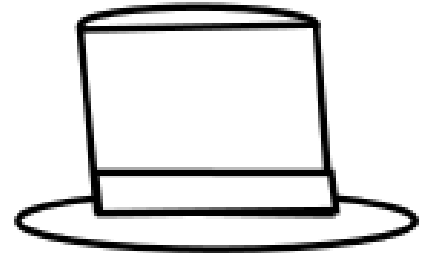
short carrot



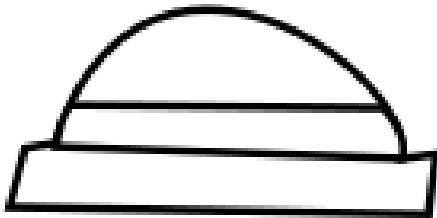
pickle



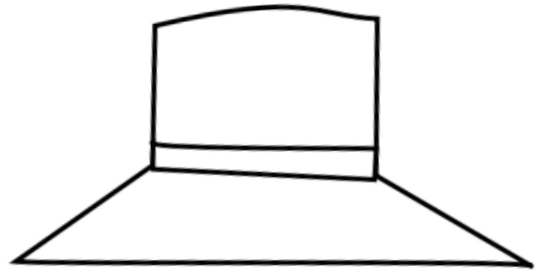
top hat



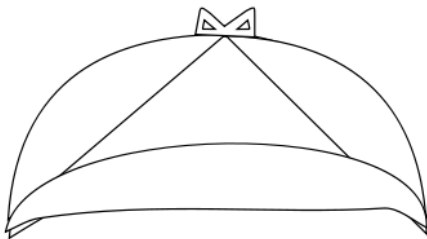
winter hat



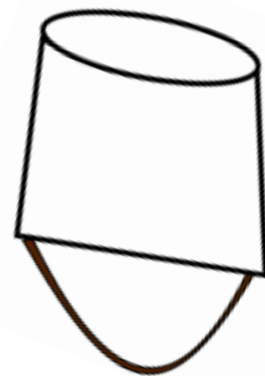
straw hat



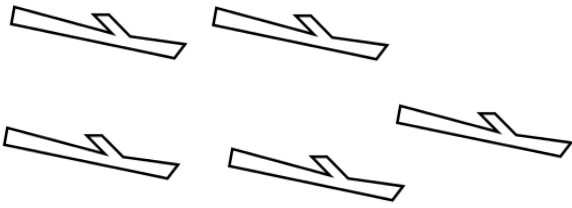
detective hat



bucket



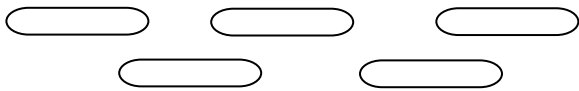
twigs for mouth



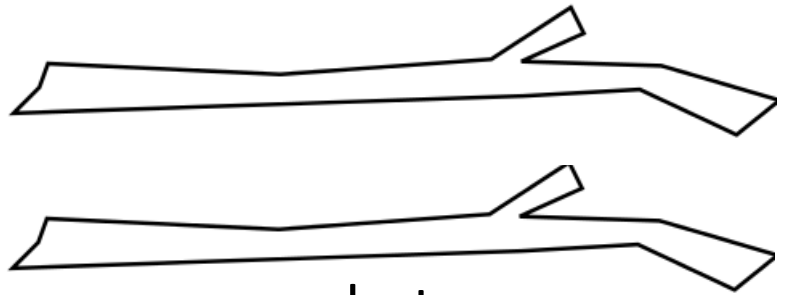
blueberries



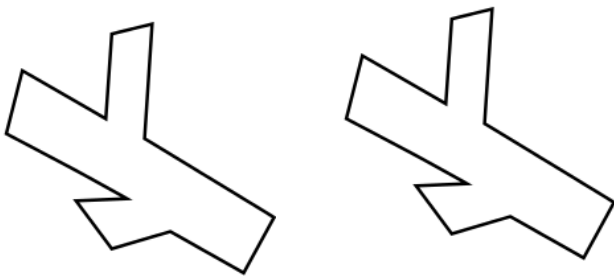
popsicle sticks



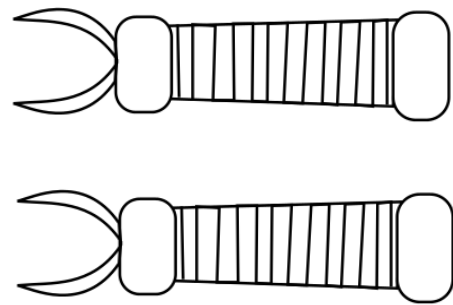
thin branches



thick branches



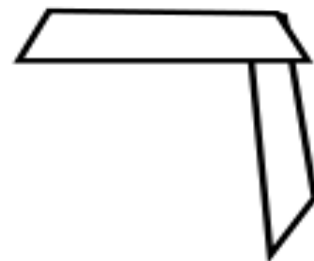
robot arms



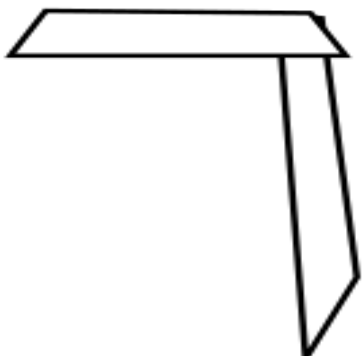
long scarf



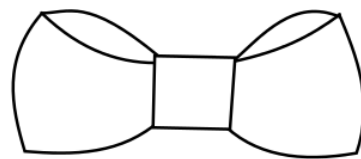
short scarf



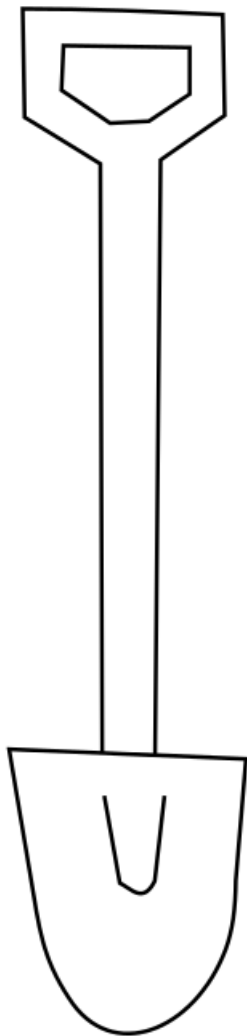
medium scarf



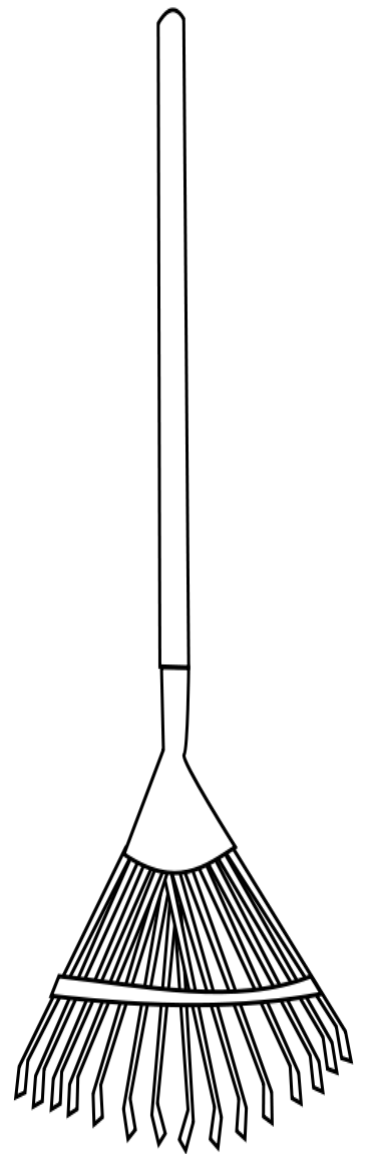
bowtie



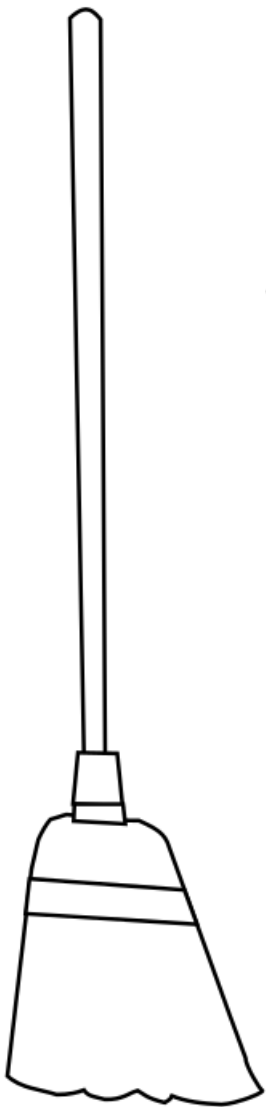
shovel



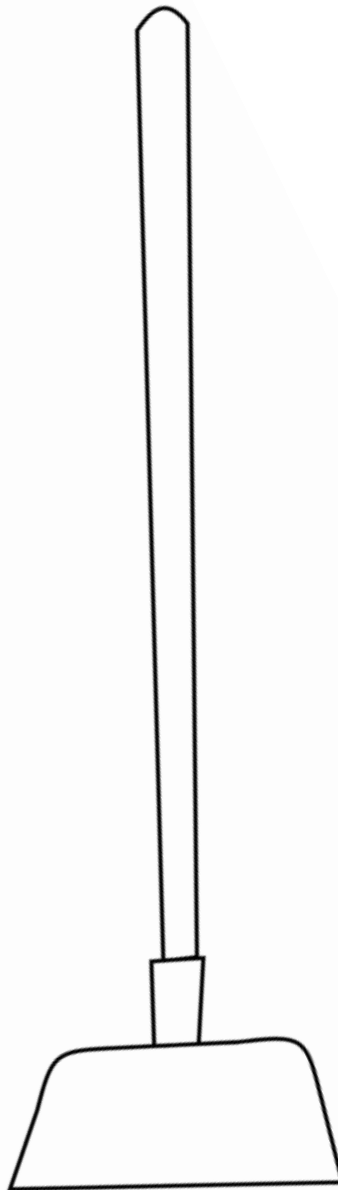
rake



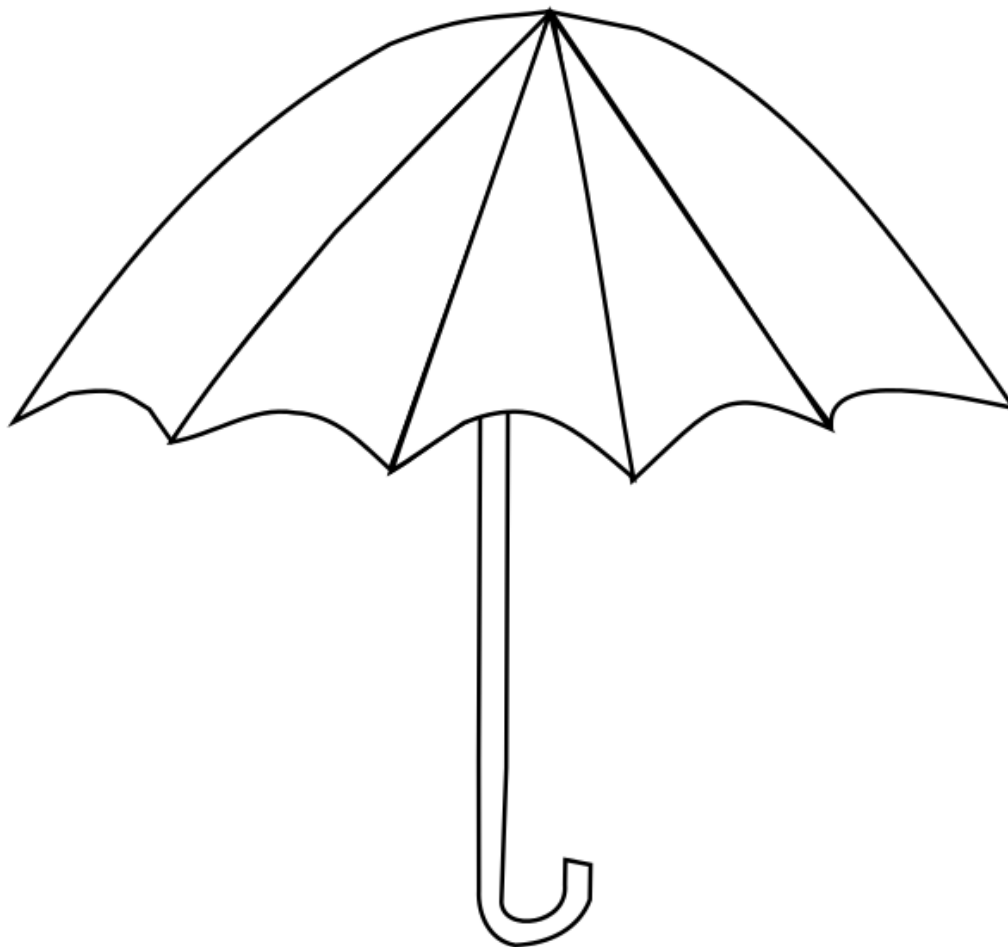
broom



garden hoe



umbrella



# Create a Classroom Graph

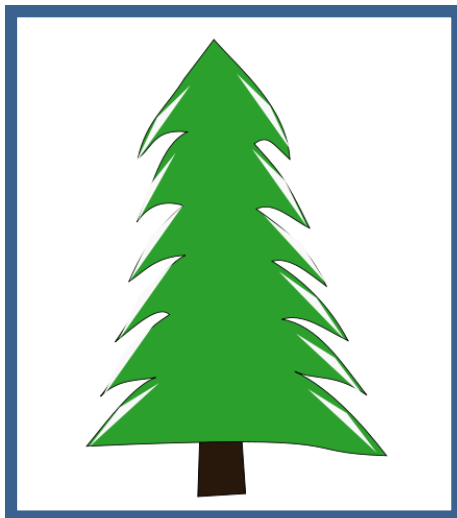
## Graphing your classroom's results

Using the information that the students gave for the winter glyph, you can create a bar graph on a chalkboard or whiteboard to compare the answers of the children in your class. Use the chart on the next page as a guide, or print out the actual graph on the next page to give to the students to create their own graphs.

## Different types of graphs you can create

- What is your favorite winter sport?
- What is your favorite piece of winter clothing?
- What do you like to put in your hot chocolate?

Using these graphs you can demonstrate to your students a little bit about statistics and how scientists and other professionals track data and information in the real world.



# What is your favorite winter sport?

## Classroom Graph

22			
21			
20			
19			
18			
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11			
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9			
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1			
	<b>skiing or snow-boarding</b>	<b>ice skating</b>	<b>running and jumping in the snow</b>



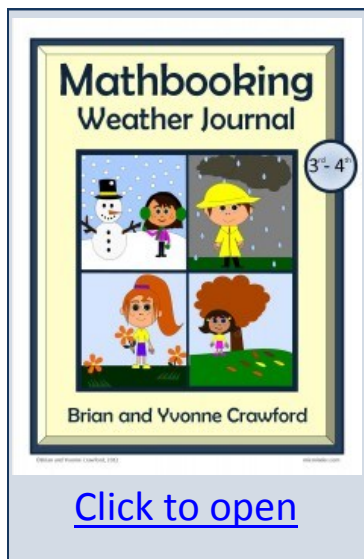
# Find free worksheets at **Mixminder.com**

Mixminder is a husband and wife team dedicated to providing **free curriculum, worksheets and activities** for teachers, homeschoolers and parents of public and private school children. We design all of our own activities and create all of our own artwork.

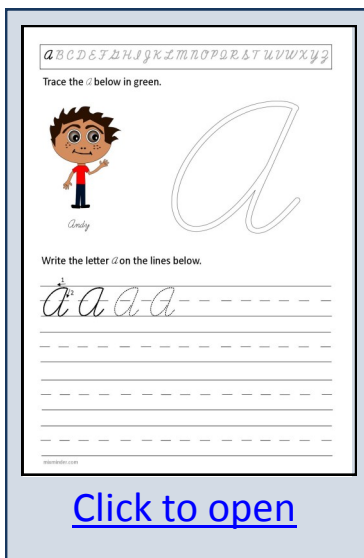
We'd love to have you visit us at our site: <http://mixminder.com>

And join us on our Facebook page: <http://www.facebook.com/mixminder>

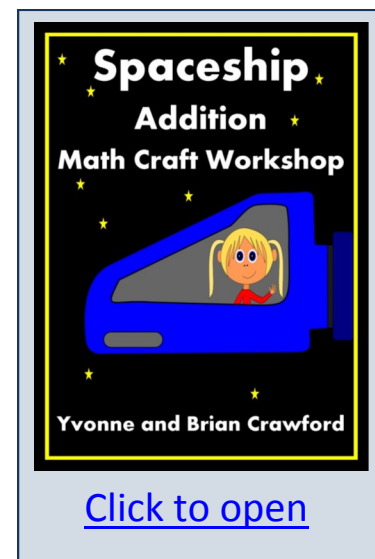
Here are some more **free activities** that your students may enjoy:



**Mathbooking** is a creative cross between mathematics and scrapbooking. With Mathbooking, children can start to learn about mathematics in a fun and stimulating environment. Here is a **free Weather Journal** with creative math questions for your children or students to answer.



The **Spaceship Addition Math Craft Workshop** is a unique way to learn addition. Cut out the colorful spaceship parts and assemble them together, then figure out how much the pieces of the ship add up to. Then have your students create a space scene to hang on your classroom wall.



Here are **52 free cursive writing worksheets** for your children or students to use to learn and practice cursive writing. Each upper and lower case letter has a page in which to practice handwriting each letter and a page with fun activities for your students to complete.