

Winter Math

Grade Level: K–2

Content Areas: Music, Art, Math, Technology, and Language Arts

Time Frame: 40 Minutes

MATERIALS

Winter Math series

Marshmallows (10 per student)

Drawing materials

OBJECTIVES

Students will:

- Learn addition and subtraction
- Count by 10 to 100
- Learn to identify even and odd numbers

KEY VOCABULARY

Before reading, focus on vocabulary. Read the glossary words and their definitions.

Addition—The act or process of adding numbers to obtain their sum

Subtraction—The act or process of taking one number away from another

Odd Numbers—Not capable of being divided by two without leaving a remainder

Even Numbers—Able to be divided by two into two equal whole numbers



PROCEDURES/ACTIVITIES

Preparation:

Tell students they are going to be learning all about math today, but not just any kind of math: winter math! Ask students what they think winter math is and discuss what they will be learning about.

Lesson Procedure:

1. Start the lesson by reading and having students sing and read along to *Making 10*.
2. After you have read the book, hand out 10 marshmallows to every student.
3. Have students sing along with the song lyrics to *Making 10* while counting with their marshmallows.
4. Next, read *Addition* and *Subtraction* with students. Have students sing and read along!
5. Tell students they are going to be practicing some addition and subtraction.
6. As a class, complete the following problem. Say, "Four pieces together with one piece is what?" Write $4 + 1 = ?$ on the board, and ask the students to show you with their marshmallows what the answer is.
7. Do the same with subtraction and continue with problems until the students feel comfortable with addition and subtraction.
8. Next, read *Even Numbers* and *Odd Numbers* and have students sing and read along.
9. After you have read the book, ask students if they can tell you some even and odd numbers.
10. Have students quiz each other by using their marshmallows to show an even or odd number. Go around the room and make sure students understand the concepts.
11. Tell students they have one more exciting skill to learn: how to count by 10 to 100!
12. Read *Count by 10 to 100* with students and have them sing along.
13. Have students listen to the song lyrics once again, and then have them use their marshmallows to act out the counting by 10 to 100.
14. To finish the lesson, quiz the students and have them use their marshmallows to show you answers. Make it into a game: the student who gets the most answers correct gets a prize. Allow students to eat their marshmallows once you feel confident that they understand all the concepts.
15. Note: For older or more advanced students, consider using more marshmallows to make questions harder.

FREE SONG

[Click here](#) to download or stream the Winter Math songs.

Find other Cantata Learning songs and books at <http://www.cantatalearning.com>.

Art Extension:

For an art extension, have your students create something fun out of the marshmallows. There are a lot of ideas for marshmallow art and recipes, such as [Paper marshmallow snowman](#) and a [marshmallow snowman to eat](#).

Students can also build larger structures using different-sized marshmallows and toothpicks. You can turn this into a contest to see who can build the tallest, longest, or strongest structure.

Technology Extension:

Children can always use extra practice and reinforcement on math skills. [Jeopardy Rocks](#), an online *Jeopardy*-type game, is a wonderful way to have fun with math while reinforcing what they learned in the Winter Math series.

Tie the Winter Math series into writing by having students [use Story Maker from ABCya](#). They can create a story about what they love about winter using text and illustrations. These can be shared digitally and by printing them off.

You can also have students make winter math books of their own, using the Winter Math series as a model.

Writing Extension:

Have students write more new songs about other seasons, using the Winter Math books as a model when writing the story and song. They can even use the same music, which is available in instrumental versions on the Cantata Learning website.

For example, write a story and song about Summer Math, tying in warm-weather activities, vacations, and summer reading.

Winter Around the World Global Project, Cantata Learning

You will find more than 250 projects of all kinds (writing, cooking, paper, technology, music, poetry, and more) in the [Cantata Learning Winter Around the World Flipsnack](#). This was compiled as part of the Winter Around the World Global Project in 2015. Please feel free to share this with your students. They will enjoy seeing all of the awesome projects and stories of winter.

Standards:

Kindergarten: CCSS.ELA-LITERACY.RL.K.1, CCSS.ELA-LITERACY.RL.K.10, CCSS.ELA-LITERACY.RF.K.1, CCSS.ELA-LITERACY.RF.K.2, CCSS.ELA-LITERACY.RF.K.3, CCSS.ELA-LITERACY.SL.K.1, CCSS.ELA-LITERACY.SL.K.2, CCSS.ELA-LITERACY.SL.K.6, CCSS.ELA-LITERACY.L.K.1, CCSS.ELA-LITERACY.L.K.6, CCSS.MATH.CONTENT.K.CC.A.1, CCSS.MATH.CONTENT.K.OA.A.1, CCSS.MATH.CONTENT.K.OA.A.2, CCSS.MATH.CONTENT.K.OA.A.5

First Grade: CCSS.ELA-LITERACY.RL.1.1, CCSS.ELA-LITERACY.RL.1.10, CCSS.ELA-LITERACY.RF.1.1, CCSS.ELA-LITERACY.RF.1.2, CCSS.ELA-LITERACY.RF.1.3, CCSS.ELA-LITERACY.SL.1.1, CCSS.ELA-LITERACY.SL.1.2, CCSS.ELA-LITERACY.SL.1.6, CCSS.ELA-LITERACY.L.1.1, CCSS.ELA-LITERACY.L.1.6, CCSS.MATH.CONTENT.1.OA.A.1, CCSS.MATH.CONTENT.1.OA.C.5, CCSS.MATH.CONTENT.1.NBT.C.4

Second Grade: CCSS.ELA-LITERACY.RL.2.1, CCSS.ELA-LITERACY.RL.2.10, CCSS.ELA-LITERACY.RF.2.3, CCSS.ELA-LITERACY.RF.2.4, CCSS.ELA-LITERACY.SL.2.1, CCSS.ELA-LITERACY.SL.2.6, CCSS.ELA-LITERACY.L.2.1, CCSS.ELA-LITERACY.L.2.6, CCSS.MATH.CONTENT.2.OA.A.1, CCSS.MATH.CONTENT.2.OA.B.2, CCSS.MATH.CONTENT.2.NBT.A.2, CCSS.MATH.CONTENT.2.NBT.B.8

