

HAUNTED MANSION MATH PROJECT

Editable
Templates
Included

- FUN Low Prep Halloween math project
- Integrates reading with math problem solving skills
- Three versions of the design task for easy differentiation
- Includes teacher notes & day by day plans
- Includes editable versions so you can personalize to fit your classroom needs



Haunted Mansion Design Task with Letter, Room Info & Map

Dear Students,

We are the owners of the Haunted Mansion Company and are working on a new Haunted Mansion design. Right now, we are in the stages and could use your help. We want this mansion to be the spookiest and most fun possible. Would you design a layout for the rooms in the mansion and make a map showing your design?

Here is the information you will need.

1. The new mansion will be 19 yards long, 20 yards wide, and 1 story high.
2. All the rooms are rectangular and are 5 yards wide, but lengths vary. Look at the room details for the length of room.
3. All the rooms must fit on one floor.
4. Every room must have at least 1 yard of hallway around entire perimeter. No rooms can share a wall and there must be a hallway around the entire floor.
5. The mansion will have only one entrance and one exit. On your map, use arrows to show the way people will enter the mansion, walk through all the exhibits, and leave the mansion.
6. Use a scale of 1 box or 1 inch = 1 yard when drawing your map.

We are sending you a list of rooms that includes names and lengths for every room. If you have room on your map, you can create some of your own haunted rooms of your own. Just remember that we want this mansion to be spooky and fun.

Thank you in advance for your kind help! We look forward to seeing your designs.



Spookily yours,
Emma Werewolf & Jack O. Lantern

Name _____

ROOM INFORMATION

These rooms **must** be in the Haunted Mansion. Remember, **every room is 5 yards wide**. You may add rooms of your own with any extra space. Be creative and have fun!

1. Bats in the Belfry (Length: 5 yards) 

2. Zombie Zoo (Length: 10 yards) 

3. I Want my Mummy (Length: 4 yards) 

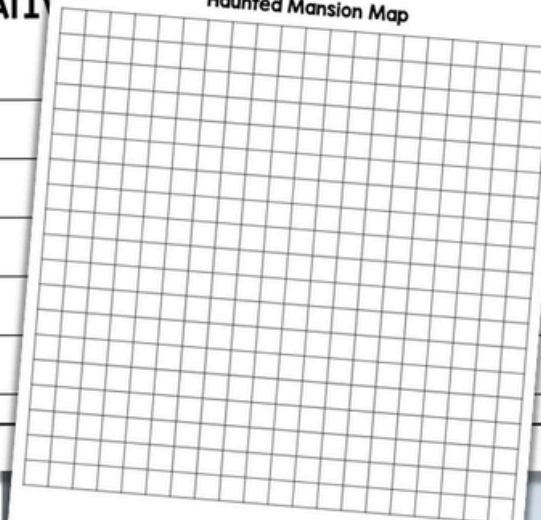
4. Sticky Spider Web (Length: 6 yards) 

5. Ghosts in the Graveyard (Length: 3 yards) 

6. Vampire's Castle 

My CREATIVE

Haunted Mansion Map



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Teacher Notes & Day by Day Plan

Notes and Instructions



of this activity included plus an extra challenge for something more difficult. The letter and room dimensions the ones I recommend using with 3rd grade students. A simpler activity with smaller floor and room dimensions is included on page 8-12. The math challenge version of this activity can be found on page 13. Everything in all projects is the same except the dimensions of the floor and rooms, so you can use them simultaneously to differentiate for students.

Setting the Activity:

1. Copy one letter and room information sheet for every student.
2. Decide which type of paper you want to use for students to show their work. You can use the included graph paper or plain construction paper. Using the graph paper makes the project much simpler. Try using plain construction paper for more challenge. There are two versions of graph paper included with each of the projects. One is length x width, the other is width x length. The width x length version fits best on 8.5 x 11 paper.

Activity Instructions:

This activity typically takes 3-4 days if students use the included graph paper. If you choose to have students use blank construction paper it can be up to a weeklong activity.

Students read the letter and brainstorm ideas for additional rooms. They can also start a sketch to help them plan how they might like to arrange the required rooms for the floor. Students will want to talk about all their amazing ideas for new rooms in the hallway.

Day 2

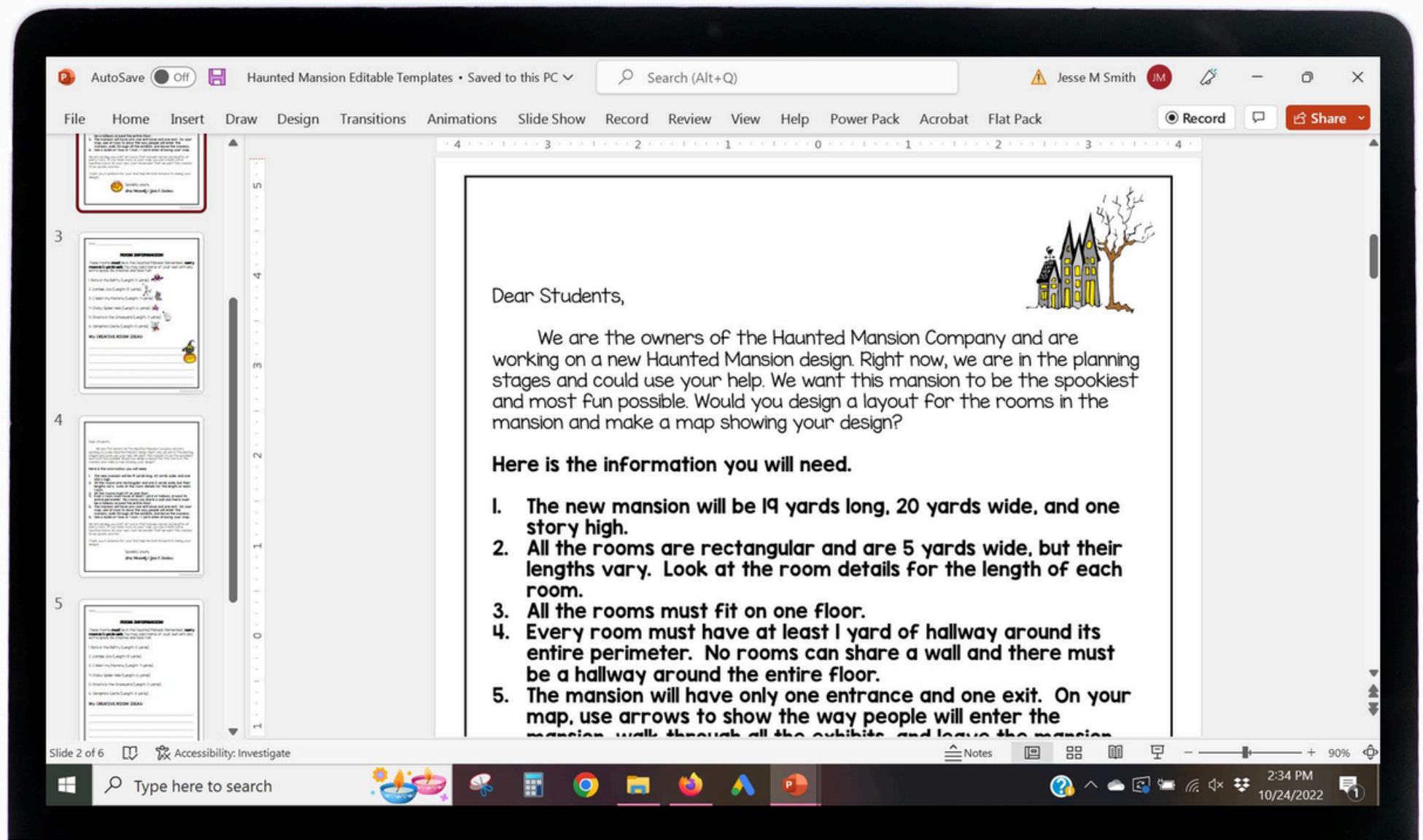
Have blank art paper (much more difficult!) or graph paper available (included) for students. They can start arranging and labeling the required rooms. You will want more than one graph paper per student. Some students might want to cut out the rooms on one graph page and try a variety of arrangements on the second.

Day 3+

Have students share how they have decided to place the required rooms and how much room they have left for their own ideas. Did students randomly place rooms or organize them in equal rows of 5 squares (for the first version) or 4 squares (for the second version) to maximize space?

Students always want to decorate every room with spooky creatures, gravestones, and cobwebs. Before they do this, talk about how architects draw their plans as a bird's eye view.

Have students find the perimeter and/or area of each of the rooms if time allows.



Plus Editable PowerPoint
Templates for Letter to
Students, Room Details, and
Map Paper



Includes 3 Versions of the Design Task for NO PREP Differentiation

Dear Students,

We are the owners of the Haunted Mansion Company and are working on a new Haunted Mansion design. Right now, we are in the stages and could use your help. We want this mansion to be the spookiest and most fun possible. Would you design a layout for the rooms in the mansion and make a map showing your design?

Here is the information you will need.

1. The new mansion will be 19 yards long, 20 yards wide, and 1 story high.
2. All the rooms are rectangular and are 5 yards wide, but their lengths vary. Look at the room details for the length of each room.
3. All the rooms must fit on one floor.
4. Every room must have at least 1 yard of hallway around its entire perimeter. No rooms can share a wall and there must be a hallway around the entire floor.
5. The mansion will have only one entrance and one exit. On your map, use arrows to show the way people will enter the mansion, walk through all the exhibits, and leave the mansion.
6. Use a scale of 1 box or 1 inch = 1 yard when drawing your map.

We are sending you a list of rooms that includes names and lengths. If you have room on your map, you can create some haunted rooms of your own. Just remember that we want this mansion to be spooky and fun.

Thank you in advance for your kind help! We look forward to seeing your designs.

Spookily yours,
Emma Werewolf & Jack O. Lantern



Name _____

ROOM INFORMATION

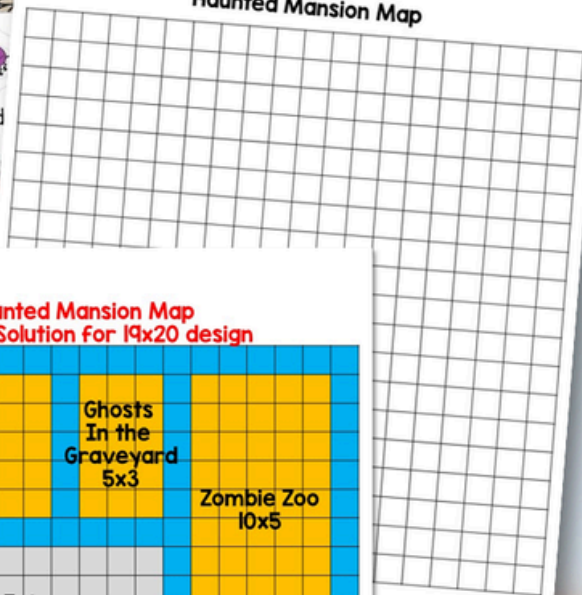
These rooms must be in the Haunted Mansion. Remember, every room is 5 yards wide. You may add rooms of your own with any extra space. Be creative and have fun!

1. Bats in the Belfry (Length: 5 yards) 
2. Zombie Zoo (Length: 10 yards) 
3. I Want my Mummy (Length: 4 yards) 
4. Sticky Spider Web (Length: 6 yards) 
5. Ghosts in the Graveyard (Length: 3 yards) 
6. Vampire's Castle (Length: 8 yards) 

My CREATIVE ROOM IDEAS:

Name _____

Haunted Mansion Map



Haunted Mansion Map
Possible Solution for 19x20 design



Version 1: Best for 3rd Grade

Version 2: Best for 2nd grade or 3rd graders who need support

Dear Students,

We are the owners of the Haunted Mansion Company and are working on a new Haunted Mansion design. Right now, we are in the planning stages and could use your help. We want this mansion to be the spookiest and most fun possible. Would you design a layout for the rooms in the mansion and make a map showing your design?

Here is the information you will need.

1. The new mansion will be 14 yards long, 7 yards wide, and 1 story high.
2. All the rooms are rectangular and are 4 yards wide, but lengths vary. Look at the room details for the length of room.
3. All the rooms must fit on one floor.
4. Every room must have at least 1 yard of hallway around the entire perimeter. No rooms can share a wall and there must be a hallway around the entire floor.
5. The mansion will have only one entrance and one exit. On your map, use arrows to show the way people will enter the mansion, walk through all the exhibits, and leave the mansion.
6. Use a scale of 1 box or 1 inch = 1 yard when drawing your map.

We are sending you a list of rooms that includes names and lengths for every room. If you have room on your map, you can create some of your own haunted rooms of your own. Just remember that we want this to be spooky and fun.

Thank you in advance for your kind help! We look forward to seeing your designs.



Spooky
ama

Same task, but simpler dimensions

Name _____

ROOM INFORMATION

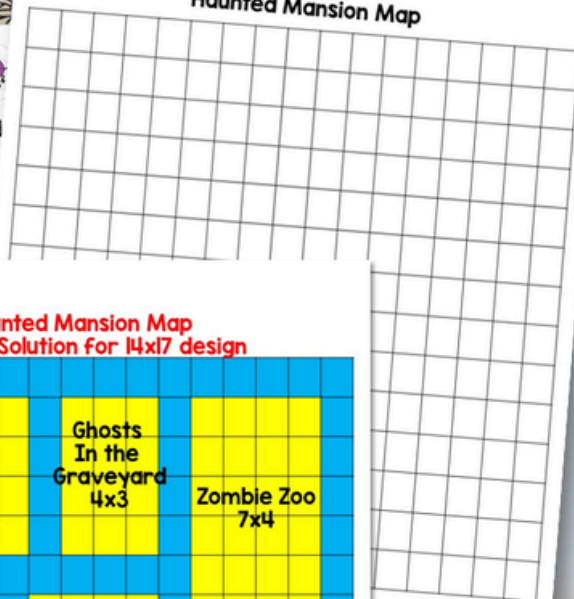
These rooms must be in the Haunted Mansion. Remember, every room is 4 yards wide. You may add rooms of your own with any extra space. Be creative and have fun!

1. Bats in the Belfry (Length: 4 yards)
2. Zombie Zoo (Length: 7 yards)
3. I Want my Mummy (Length: 5 yards)
4. Sticky Spider Web (Length: 2 yards)
5. Ghosts in the Graveyard (Length: 3 yards)
6. Vampire's Castle (Length: 6 yards)

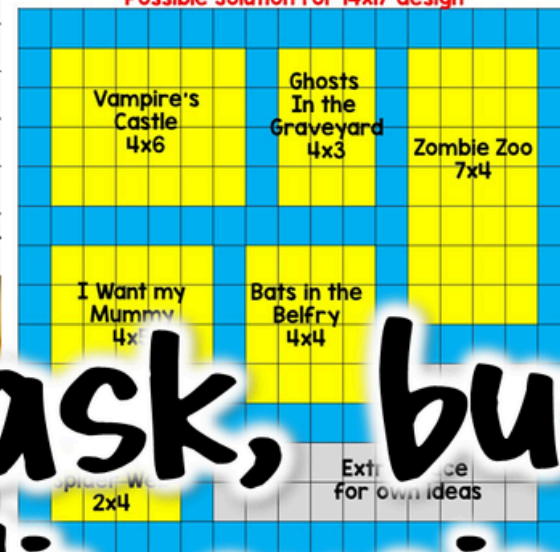
My CREATIVE ROOM IDEAS:

Name _____

Haunted Mansion Map



Haunted Mansion Map
Possible Solution for 14x7 design



Version 3: Challenge with only one possible solution

Name _____

MANSION CHALLENGE ROOM INFORMATION

These rooms **must** be in the Haunted Mansion. The **hallways** around the perimeter of every room must be **exactly one square yard**. You will not have extra space once all these rooms are in the correct place.

1. Bats in the Belfry (Length: 5 yards)



2. Zombie Zoo (Length: 10 yards)



3. I Want my Mummy (Length: 4 yards)



4. Sticky Spider Web (Length: 6 yards)



5. Ghosts in the Graveyard (Length: 3 yards)



6. Vampire's Castle (Length: 8 yards)



7. Black Cat Alley (Length: 6 yards)



8. Haunted Pumpkin Patch (Length: 7 yards)



Haunted Mansion Map Possible Solution for 19x20 challenge design



Same task, but simpler dimensions

Dimensions: 19x20

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Version 3: Challenge with only one possible solution

Name _____

MANSION CHALLENGE ROOM INFORMATION

These rooms **must** be in the Haunted Mansion. The **hallways** around the perimeter of every room must be **exactly one square yard**. You will not have extra space once all these rooms are in the correct place.

1. Bats in the Belfry (Length: 5 yards)



2. Zombie Zoo (Length: 10 yards)



3. I Want my Mummy (Length: 4 yards)



4. Sticky Spider Web (Length: 6 yards)



5. Ghosts in the Graveyard (Length: 3 yards)



6. Vampire's Castle (Length: 8 yards)



7. Black Cat Alley (Length: 6 yards)



8. Haunted Pumpkin Patch (Length: 7 yards)



Haunted Mansion Map Possible Solution for 19x20 challenge design



Same task, but simpler dimensions

Dimensions: 19x20

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Find the Area & Perimeter Pages for all 3 Versions

Name _____

Mansion Measurements



Find the perimeter and area for each of the rooms in your haunted mansion design. Show your work in each box.

1. Bats in the Belfry

Perimeter= _____

Area= _____

2. Zombie Zoo

Perimeter= _____

Area= _____

3. I Want my Mummy

Perimeter= _____

Area= _____

4. Sticky Spider Web

Perimeter= _____

Area= _____

7. _____

Perimeter= _____

Area= _____

Answer Key 19x20 Version

Find the perimeter and area for each of the rooms in your haunted mansion design. Show your work in each box.

1. Bats in the Belfry

Perimeter= 20 yards

Area= 25 square yards

2. Zombie Zoo

Perimeter= 30 yards

Area= 50 square yards

3. I Want my Mummy

Perimeter= 18 yards

Area= 20 square yards

4. Sticky Spider Web

Perimeter= 22 yards

Area= 30 square yards

5. Ghosts in the Graveyard

Perimeter= 16 yards

Area= 15 square yards

6. Vampire's Castle

Perimeter= 26 yards

Area= 40 square yards

7. _____

Perimeter= _____

Area= _____

8. _____

Perimeter= _____

Area= _____

9. _____

Perimeter= _____

Area= _____

Name _____

Mansion Measurements



Find the perimeter and area for each of the rooms in your haunted mansion design. Show your work in each box.

1. Bats in the Belfry

Perimeter= _____

Area= _____

2. Zombie Zoo

Perimeter= _____

Area= _____

3. I Want my Mummy

Perimeter= _____

Area= _____

4. Sticky Spider Web

Perimeter= _____

Area= _____

7. _____

Perimeter= _____

Area= _____

Name _____

Mansion Measurements



Find the perimeter and area for each of the rooms in your haunted mansion design. Show your work in each box.

1. Bats in the Belfry

Perimeter= _____

Area= _____

2. Zombie Zoo

Perimeter= _____

Area= _____

3. I Want my Mummy

Perimeter= _____

Area= _____

4. Sticky Spider Web

Perimeter= _____

Area= _____

5. Ghosts in the Graveyard

Perimeter= _____

Area= _____

6. Vampire's Castle

Perimeter= _____

Area= _____

7. Black Cat Alley

Perimeter= _____

Area= _____

8. Haunted Pumpkin Patch

Perimeter= _____

Area= _____



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“This group of students love anything to do with Halloween. Creating a haunted house with specific rooms really intrigued the majority of my students. Their interest level was much higher than I had anticipated. I’m thrilled with the students’ final projects.”

Brenda M.

The background of the image shows a white plate with several sliced carrot sticks. Overlaid on the left side of the plate is a large, solid orange speech bubble with rounded corners. Inside the speech bubble, there is white text. The text is arranged in two main sections: a long quote and a name below it. The quote is in a large, bold, sans-serif font, and the name is in a slightly smaller, bold, sans-serif font.

**“I love how it could
be differentiated for
different ability
levels. It was a fun
activity and the kids
were excited to put
them in their
portfolios!”**

Michelle M.

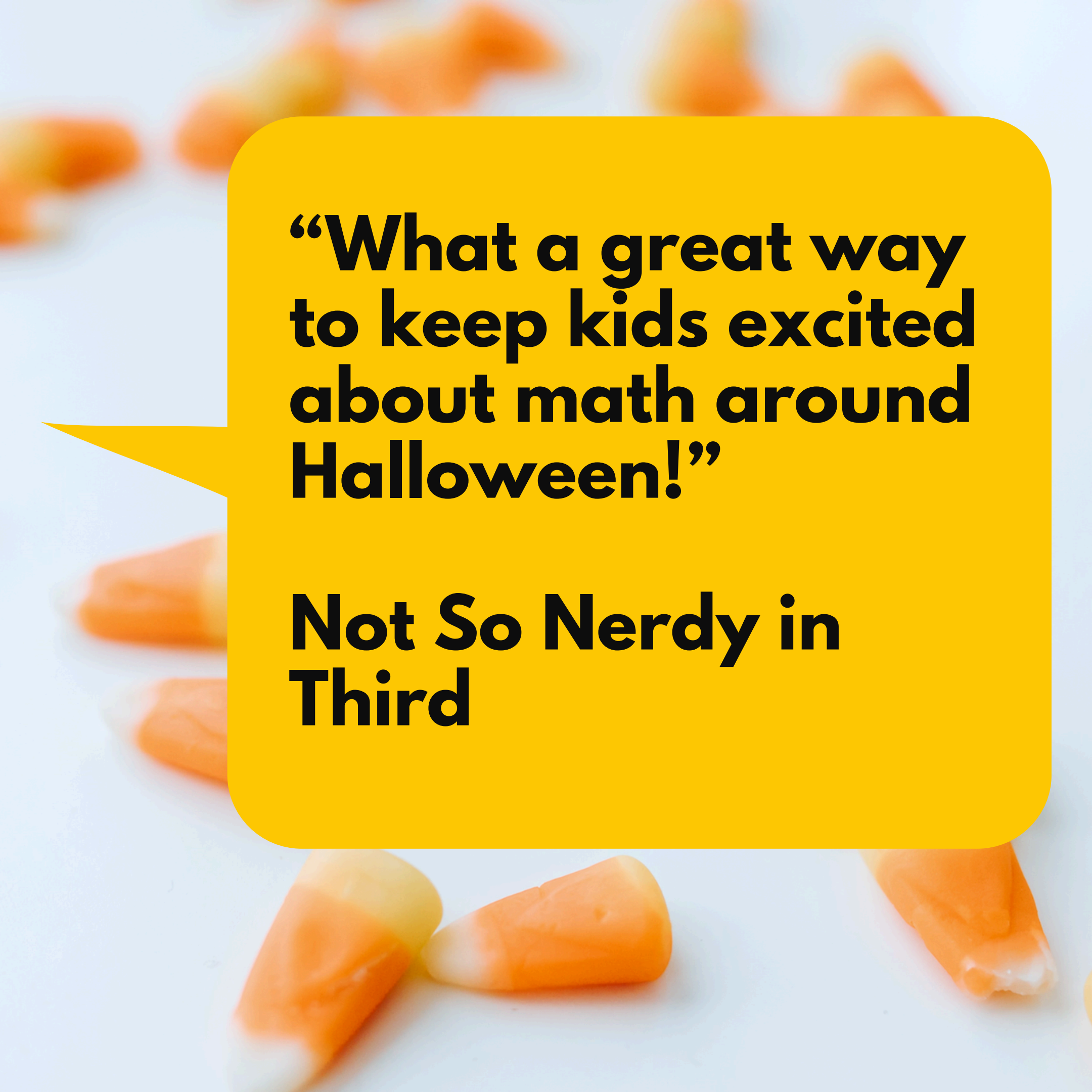
“My students loved this activity. It allowed them to truly express their creativity and problem solving skills.”

Christa G.



“I love that it is differentiated. Can't wait to use this in centers in the week leading up to Halloween.”

Elizabeth H.

The background of the entire image is a close-up, slightly blurred photograph of several pieces of candy corn. The candy corn is orange with a white tip and is scattered across a light-colored surface. A large, bright yellow speech bubble with rounded corners is positioned in the center-left of the image, containing the main text.

**“What a great way
to keep kids excited
about math around
Halloween!”**

**Not So Nerdy in
Third**