

7 Spooky Halloween Maths Activities

7 fun & interactive maths games
to use throughout October

KS2

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What to expect with these 7 Halloween Maths Activities

The Halloween period is all about ghosts, sweets and fancy dress costumes, but it is also a great time to bring some maths into the frightening festivities. Within this resource you will find a mixture of activities to test your class and including area, measurements and division, so we hope you don't have any frights when doing these activities with your class!

Negative Numbers Trick Or Treat Adventure

This simple Halloween maths worksheet will help your primary school class practice using negative numbers in a fun and engaging way. Sid and Susie the skeletons are off on a trick or treat adventure, so can your class work out who will get the most sweets?



You will need

- The Sid and Susie adventure worksheets
- Maths books to take part in the trick or treat adventure if you put the sheets on the whiteboard instead of printing.

How to run the activity

1. Sid and Susie the skeletons are both heading down a trick or treat path, and it is up to your pupils to work out how many treats each is left with after they complete their math filled journey.
2. Each house along the path requires your class to work out the answer to a question.
3. At some houses the calculations will create a positive number (a 'treat') and at others their calculation will create a negative number (a 'trick').
4. Your class should work out whether it is Sid or Susie that has been left with more sweets at the end of their adventure.

Things to note & answers

Susie the skeleton's path is slightly trickier than Sids and has more difficult calculations, but this could mean more treats come the end of the journey! It is up to your class to decide which path they will take!

Answers:

Sid ends with 8 sweets

Susie ends with 14 sweets

Spooky Spider Web Angles

These spiders have made different paths with their silk, and it is up to your class to work out the angles they have made! Each spider has chosen to begin creating their web using a different angle, so make sure your primary pupils pay close attention to each and every arachnid!



You will need

- The spider web angles worksheet
- Protractors to measure the angles

How to run the activity

1. Hand out the spooky spider web angles worksheet to your class alongside a protractor for each pupil.
2. Watch them work out the angles that each of the spiders has created!

Things to note & answers

This is a simple activity that is perfect to hand out after lunchtime to help the class settle again.

Answers:

$$A = 45^\circ$$

$$B = 25^\circ$$

$$C = 100^\circ$$

$$D = 90^\circ$$

$$E = 10^\circ$$

$$F = 75^\circ$$

Helping The Witch Make Her Potion - Missing Symbols

You'll find addition, subtraction, division and multiplication in this worksheet, making it the perfect Halloween activity for school. Willow the witch is struggling to work out the amount of each spooky ingredient she needs for her potion, so she needs your classes help!



You will need

- The Willow the Witch worksheets

How to run the activity

1. Print off the worksheets and hand them out to each member of your class.
2. Using the symbols for each of the four operations, it is up to your pupils to fill in the correct one in each box to ensure that exactly the right number of frogs legs, eyeballs and more end up in the potion.

Things to note & answers

This is a great maths activity to use to settle your class down after an exciting lunchtime. Print it off for them and explain that Willow the witch needs their help. Then, all that is left for you to do is sit back and watch them complete this topical maths challenge their four operations knowledge!

There are two pages packed with gruesome ingredients, so you can choose which pupils need an extra challenge and give them the extra sheet to really test their potion making skills.

Answers:

A. x	G. x	M. +
B. +	H. ÷	N. +
C. ÷	I. ÷	O. x
D. +	J. x	
E. x	K. ÷	
F. x	L. ÷	

Spooky Division Word Problems

This activity is a ready made Halloween maths worksheet with 8 ghoulish division based word problems to solve. These questions are bound to get your class into the Halloween spirit whilst practicing division, so what more could you ask for?



You will need

- The spooky maths division worksheet

How to run the activity

1. Print off enough of the worksheets so that every member of the class has one to work on.
2. Set the class to work, figuring out the tricky word problems!

Things to note & answers

Depending on the maths level of the children in your class, you can adapt the numbers in the problems to stretch and challenge each pupil by writing individual problems up on the interactive whiteboard.

Answers:

1. 16
2. 3
3. 8
4. 5
5. 2
6. 5
7. 5
8. 5

Bats Vs. Broomstick Measuring Activity

Depending on whether or not the Autumn weather has truly taken hold, this activity is the perfect one to make the most of the last few rays of sunshine and to take your maths lesson outside.

Bats vs. Broomsticks - Let the measurements begin!



You will need

- Sheets of A4 paper for your class
- Pens or pencils to decorate the paper planes with
- Something to measure distances with

How to run the activity

1. Hand out sheets of paper to your class and instruct them to make paper planes.
2. Once made, get the class to decorate them with either bats or witches & wizards.
3. Once everyone has finished creating their paper plane, take them outside (or into the school hall if the rain is showing no sign of letting up) and let them fly!
4. Then once everyone has released their plane it is time for some Halloween maths.
5. Pupils can measure and compare the distances their planes have flown, and you can ask questions such as:
 - How far did your bat/broomstick fly in metres?
 - How far did your bat/broomstick fly in centimetres?
 - Which bat/broomstick flew the farthest?
 - What was the average distance flown by bats and by broomsticks across the class?
 - What was the average distance of all the bats?
 - What was the average distance of all of the broomsticks?
 - Which type of plane (bat vs broomstick) flew the farthest distance when all of them are added together?

Things to note

To turn this activity into more of a competition amongst your class, why not add some extra monsters into the mix? How much further did the zombie plane fly than the ghost one? Is Frankenstein a better pilot than Dracula? The spooky possibilities here are endless...

Frankenstein's Friends - Roman Numeral Door Numbers

Whilst they are not the most important element of the curriculum for many teachers, by Year 4 pupils should be comfortable with Roman Numerals up to 100, so this fun Halloween maths game is a great way to challenge the Roman Numeral knowledge in your class.



You will need

- The Frankenstein's friends worksheets
- Maths books for workings and writing answers onto

How to run the activity

1. In a similar vein to the negative numbers trick or treat adventure sheet, you can print off the worksheet and get your class to tackle the path individually or in teams.
2. Let your class figure out the door numbers for each of Frankenstein's friends, writing out the answers in their books as they go.

Things to note & answers

This simple activity is a good way to get pupils thinking about Roman Numerals in a fun and engaging way. There are two different variations of the worksheet, with sheet one being slightly simpler than sheet two. Based on the levels in your class you can choose which pupils complete each sheet!

Answers:

Sheet 1:

1. 5
2. 9
3. 13
4. 50
5. 100

Sheet 2:

1. 1000
2. 902
3. 400
4. 904
5. 165

Spider Web Area & Perimeter - Greater Depth Investigation

Spider webs are everywhere approaching Halloween, but rather than accidentally walking into them in the playground, why not bring these clever creations into the classroom to help area and perimeter stick to your pupils like a fly in a web!



You will need

- A series of spider webs drawn out, depending on the levels and knowledge of your pupils

How to run the activity

1. Your class will need to work to find the area of one section of a spider's web and then multiply this by the total number of sections around that layer to find the overall surface area of each layer of the web.
2. Then, they can repeat this for each layer of the web, eventually working out the total area of the web.

Things to note

We know that this task is tough, so if you are looking for a way to simplify things all you need to do is make each layer of the web a single shape, either a circle, square or triangle.

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