

# KS2 Snow Day Maths



Be . Build . Become

*'Encourage one another and build each other up.'* Thessalonians 5:11

# **Times Table Rockstars Competition**

**Who will be the snow day  
winner in each year group?**

**10 KBVs for the winners when  
we return**



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**Here are some simple fun activities for you to try at home. You do not need to attempt all of them but we would love to see some pictures of your maths.**

- Create a snowball tower – How many snowballs high can you go?
- Can you create 3D snow objects - A cylinder? Cone? Cube? Cuboid? Square based pyramid? Tetrahedron? Triangular prism. What are the properties of each shape you create?
- How many snowballs can you create in 1 minute?
- Can you create an igloo – it doesn't have to be too big. How many snow bricks are needed to make each row? Is it better to use large or small containers? What about the tiling construction to ensure stability? How do we pack down the snow to make safe and sturdy blocks of snow?

# Year 3 & 4 Maths

- Create number sentences in the snow using a sticks/leaves/writing it  
e.g.  $35 + 121 =$
- If you have icicles outside your home – Can you measure them?  
Which is the longest? Which is the shortest? What is the difference  
between the longest and shortest? (Be careful with the icicles)
- How deep is the snow outside your home? How will you measure  
this?
- Create your own maths problem in the snow to test your teacher and  
class when you return to school?
- Can you create a repeating pattern with 3D snow shapes?

## Year 3 & 4 challenges

Winter Challenge Cards

Hot chocolate is sold in mugs which hold 200ml. How many mugs can be filled from 1000ml of hot chocolate?



Winter Challenge Cards

There are 48 children at the ski club. They are divided into 8 groups. How many children are in each group?



Winter Challenge Cards

One ski lesson at the local dry ski slope costs £21 for a child and £29 for an adult. How much would it cost for 2 adults and 3 children to have one lesson?



Winter Challenge Cards

The snow has been falling for 6 minutes. It now measures 25mm deep. If it continues to snow for the next 12 minutes at the same rate, how deep will the snow be in cm?



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## Year 5 & 6 Maths

Go outside and create a few snowballs of different sizes. Discuss how to measure them.

For example:

Measure its circumference – this is likely to be an approximation, unless you decide to cut your snowball in half to work out the radius.

What is the size of the biggest snowball you can make?

Cut your snowball in half to work out the radius.

Weigh your snowball to find out its mass.

Wrap it cling film or foil to work out its approximate surface area

Record your findings by writing or drawing



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# Year 5 & 6 challenges

Tickets for an ice show cost £8. In one week 4815 tickets are sold. How much is taken at the box office?



Here are the overnight temperatures for one week in December:

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
-17°C	-22°C	-21°C	-18°C	-14°C	-7°C	2°C

What is the difference between the temperatures on Tuesday and Saturday?

What is the difference between the temperatures on Sunday and Friday?



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The Winter Wonderland Giant Wheel costs £6 for an adult ticket. There are 8269 adults who ride on the wheel. How much money was made on this ride?

