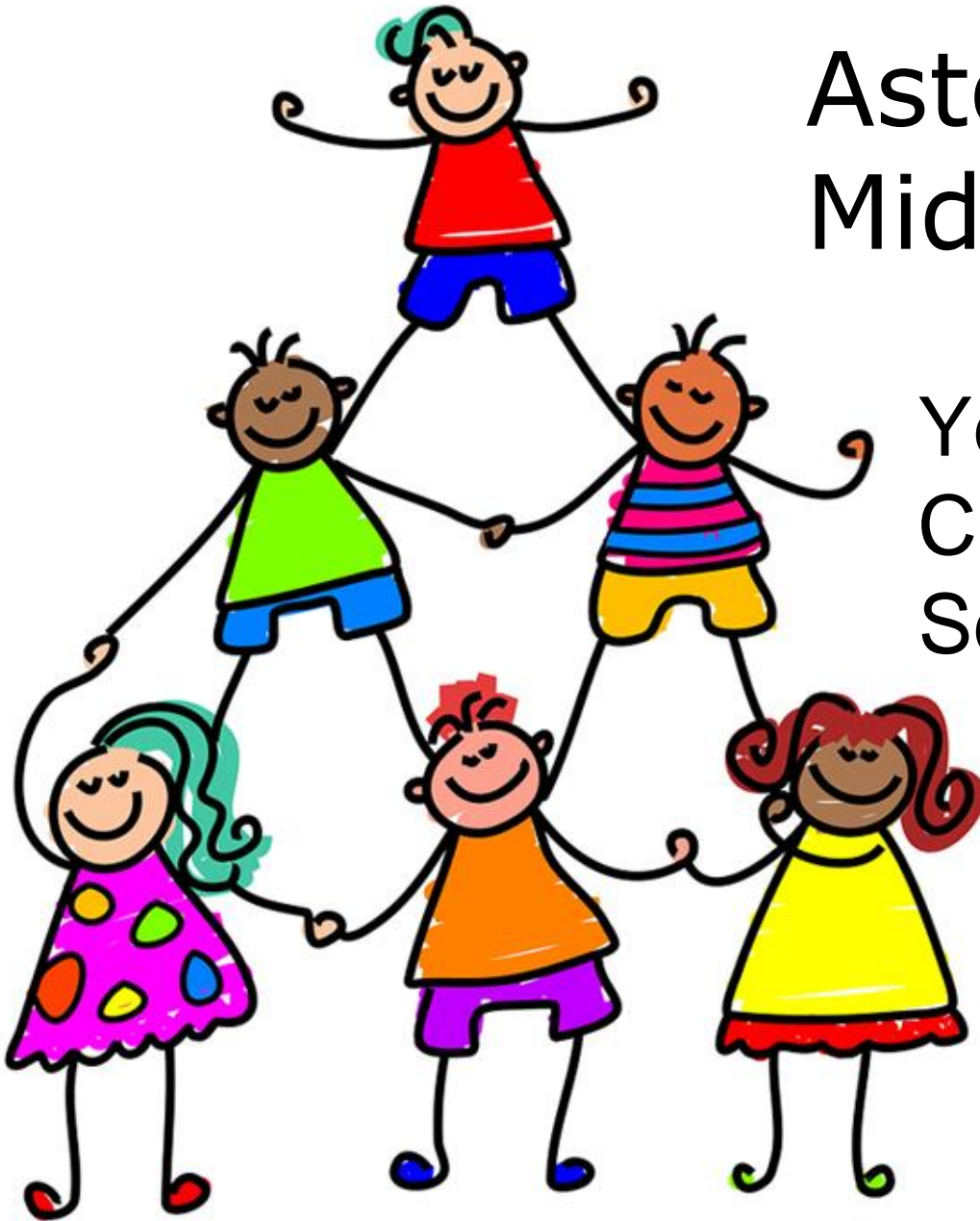


# Aston Fields Middle School

Year 5 Mathematics  
Curriculum Evening  
September 2024





# Calculating Cost

Miss Mills is making jam to sell at the school fair.

- Strawberries cost £7.50 per kg.
- Sugar costs 79p per kg.
- 10 glass jars cost £6.90

She uses 12 kg of strawberries and 10 kg of sugar to make 20 jars full of jam.

Calculate the total cost to make 20 jars full of jam.





# Which is larger? And by how much?

- The area of a rugby pitch is 6,108 square metres.
- A football pitch measures 112 metres long and 82 metres wide.
- Which has the largest area and by how much?





# Mathematics in KS2

- Pupils start the year in their 5 form classes.
- Small groups will be taken out to do more focused work with pupils.
- Pupils then move into 6 sets.
- Baseline assessments are used in conjunction with first school information.





# The KS2 Curriculum

- Mathematics is a creative and highly inter-connected discipline that has been developed over centuries, providing the solution to some of history's most intriguing problems.
- It is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment.
- A high-quality mathematics education provides the foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.



# The Curriculum

- The curriculum is based on 2-3 week blocks centred on basic number skills, shape & space, handling data and more advance number skills.
- This leads to a cyclical approach, meeting topics regularly and building on prior learning, this helps pupils to learn more and remember more.





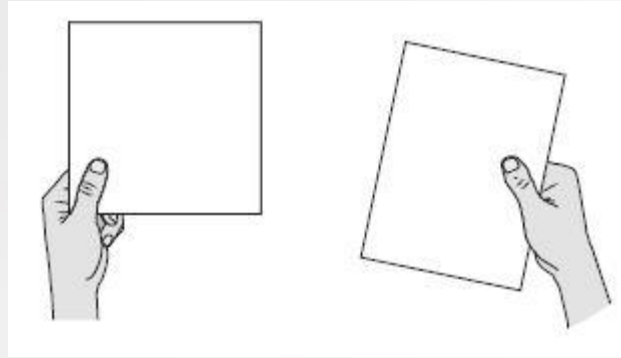
# The Curriculum

- Reinforcing core skills, building fluency.
- Focus on using and applying mathematics.
- Building confidence and links between areas of mathematics.
- Encouraging pupils to explain methods and reasons for the links they observe.





# Which is larger? And by how much?



A square tile measures 20 cm by 20 cm.  
A rectangular tile is 3 cm **longer** and 2 cm **narrower** than the square tile.  
What is the **difference in area** between the two tiles?







# Another problem:

Would you rather have as a prize?

- ❖ Win £100
- ❖ Receive 1p on one day, 2p on the second day, 4p on the third day and continue to double every day for a month
- ❖ Win £1800 that you have to split with 12 people
- ❖ Receive what was left from £5000 where each day for a week it was reduced by 10%
- ❖ Have 10 lottery tickets





# Assessment

- Assessment will be continuous – drawing on class & homework, tests, discussion & group work.
- Pupils will need to show mastery & fluency.





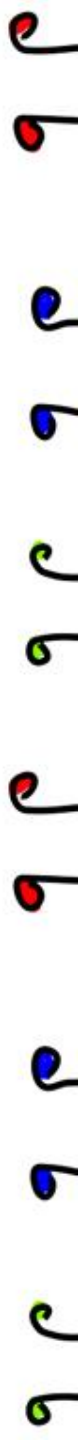
# Standard Attainment Tests (SATs)

- 3 papers taken by all students aimed to assess whether pupils are working at age related expectations.
- Arithmetic paper– 30 minutes
- 2 Reasoning papers – each 40 minutes (non calculator)
- Taken in May over a week with English tests
- Results reported as a standardised score – 100 being age related expectations.



# The link with home...

- Partnership
- Foster enjoyment
- Homework
- Consolidate and practise skills
- Play games
- Websites: [mymaths.co.uk](http://mymaths.co.uk)  
[bbc.bitesize](http://bbc.bitesize)  
[ttrockstars.com](http://ttrockstars.com)





# The link with home...

- Times Tables

[ttrockstars.com](http://ttrockstars.com)

[mymaths](http://mymaths.com)

Games dice and playing cards

Homework Diaries – Heatmaps





# Topics

- Money
- Time & timetables
- Weighing and measuring





# Chocolate chip cookies (makes 12)

- **Ingredients**
- 350g/12¼oz unsifted flour
- 1 tsp bicarbonate of soda
- 1 tsp salt
- 225g/8oz butter
- 175g/6¼oz caster sugar
- 175g/6¼oz soft brown sugar
- 1 tsp vanilla extract
- 2 eggs
- 350g/12¼oz dark chocolate, crumbled





# How can you help at home?

1. Growth Feedback
2. Celebrate Mistakes

Promote  
Growth Mindset  
**Resilience,  
motivation &  
success**







**“You really tried hard and it’s getting better every time”.**

**“That is the best one that you have done yet!**

**“That was a good way to do it”.**

**“Try different ways until you find the right one for you”.**

**“Practice makes perfect”.**

**“Try to do even better next time”.**

