



Dorchester Middle School

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KS2 National Curriculum Tests (SATS)

DMS Information Evening – Jan 2025

The Tests

Key Stage 2 SATs take place nationally in the week commencing 12th May 2025.
Statutory tests will be administered in the following subjects:

English

- Punctuation, Vocabulary and Grammar (45 minutes)
- Spelling (approximately 15-20 minutes)
- Reading (60 minutes)

Mathematics

- - Paper 1: Arithmetic (30 minutes)
- - Paper 2: Reasoning (40 minutes)
- - Paper 3: Reasoning (40 minutes)

All tests are externally marked.

Writing will be 'Teacher Assessed' internally, as in recent years. We make our final judgements by the end of June.

SATs Timetable (12th May – 15th May)



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Day	Tests	
Monday 12 th May	English grammar, punctuation and spelling papers 1 and 2	
Tuesday 13 th May	Reading	
Wednesday 14 th May	Maths (Arithmetic)	Maths (Reasoning 1)
Thursday 15 th May	Maths (Reasoning 2)	
Friday 16 th May		

Assessment and Reporting

- All End of Key Stage Two tests are testing your child's/children's knowledge and understanding in English and Maths from the 2014 National Curriculum programmes of study from Years 3, 4, 5 and 6.
- All tests are marked externally (and marked on a screen).
- All test scores are reported as 'scaled scores'.
- A scaled score of 100 means your child is working 'At Standard'.
- At the end of the year you will be informed of whether your child is 'at standard' or 'not at standard' (AS/NS).
- Your child/children could also be reported as 'Greater Depth' (GDS). This is where a pupil is working at a standard well over a scaled score of 100 – usually around a scaled score of 110.



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English



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Reading

- The Reading Test consists of a single test paper with three unrelated reading texts.
- Children are given 60 minutes in total, which includes reading the texts and answering the questions.
- A total of 50 marks are available.
- Questions are designed to assess the comprehension and understanding of a child's reading.



The Park



Fact Sheet:
About Bumblebees



Music Box

Reading Booklet

2019 key stage 2 English reading booklet



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Reading-example questions

3 What does the letter in the brown envelope tell Joe's mother?

1 mark

4 Look at page 4.

Find and copy one word which shows that Joe is angry.

1 mark

7 What is Joe's mother thinking after she reads the letter?

Tick one thought.

I'm happy that the boys have finished their breakfast.

I don't want the boys to realise how upset I am.

I'm worried the boys will be late for school.

I'll cook sweet-and-sour spaghetti for the boys later.

1 mark

Reading-example questions



- 13 Using information from the text, tick one box in each row to show whether each statement is **true** or **false**.

	True	False
The park has been looked after by a park warden.		
The park is going to be replaced with a shopping centre.		
Building work in the park will start at the end of July.		
The warden had two weeks' notice of the park's closure.		

2 marks

- 15 Look at the section headed: *Save our bees*.

Complete the table below with **one** piece of evidence from the leaflet to support each statement.

	Evidence
The Bumblebee Conservation Trust is worried about bees.	
The leaflet makes readers feel hopeful for bumblebees.	

2 marks

Reading-example questions



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39

What impressions do you get of the relationship between Piper and Micah?

Give **two** impressions, supporting your answer with evidence from the text.

1. _____

2. _____

3 marks

Spelling, Punctuation and Grammar (SPaG)

The SPaG test consists of two tests:

- Paper 1 is Punctuation, Vocabulary and Grammar
- This test lasts for 45 minutes and consists of short answer questions, including some multiple choice.
- Paper 2 is a spelling test containing 20 words, lasting approximately 15-20 minutes.
- Marks for these two tests are added together to give a total out of 70 for Spelling, Punctuation and Grammar.



Paper 1-Sample Questions

22

What does the root struct mean in the word family below?

destruction structure reconstruct

Tick one.

break

build

carry

touch

1 mark

37

Rewrite the sentence below so that it is written in the **passive voice**.
Remember to punctuate your answer correctly.

The pouring rain drenched us.

1 mark



Paper 1-Sample Questions

40

Tick one box in each row to show if the underlined conjunction is a **subordinating conjunction** or a **co-ordinating conjunction**.

Sentence	Subordinating conjunction	Co-ordinating conjunction
I like ice-skating <u>and</u> roller-skating.		
Jamie likes roller-skating, <u>but</u> he has never tried ice-skating.		
Jamie will go ice-skating <u>if</u> I go with him.		

1 mark

44

Underline the **verb form** that is in the **present perfect** in the passage below.

Rachel loves music and has wanted to learn how to play the piano for years. She was hoping for piano lessons, and was delighted when her parents gave her a keyboard for her birthday.

1 mark

Paper 2-Sample Questions

1. Sara wanted to be an explorer and _____ new lands.
2. The spy was sent on a secret _____.
3. For PE lessons, your clothes should be _____ and comfortable.
4. The _____ showed which way to go.
5. China is a large _____.
6. Laura won a medal for _____.
7. Not all berries are _____.

discover

mission

loose

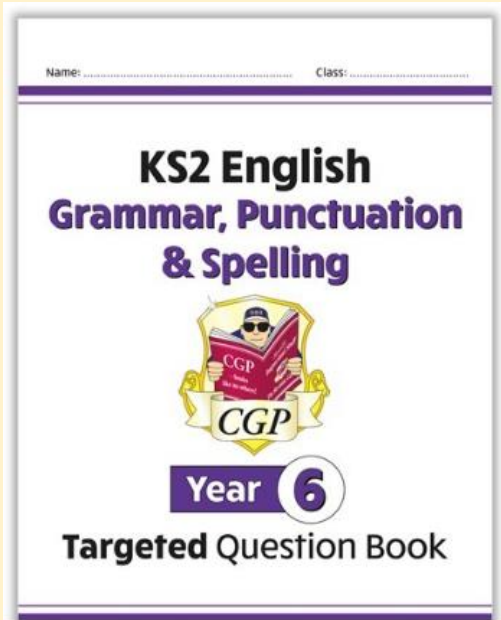
sign

country

gymnastics

edible

How can I help my child with homework at home?



Spelling rule
lists shared at
Parents
Evening

How can I help my child with English at home?

- Support the weekly learning sent home (CGP Grammar book and reading comprehension)
- Reading - stamina, fluency and comprehension – the key is to read aloud at a rate of around 140-150 words per minute
- Read five times per week (log on BoomReader)
- Skimming and scanning ("Fastest finger first..." "Find the word after....")
- Talking about vocabulary (especially synonyms and the effect of words on the reader)
- Practice questions - not past papers please
- Grammar - word classes etc.
- Encourage them to complete the practice papers that will be sent home nearer the end of term.



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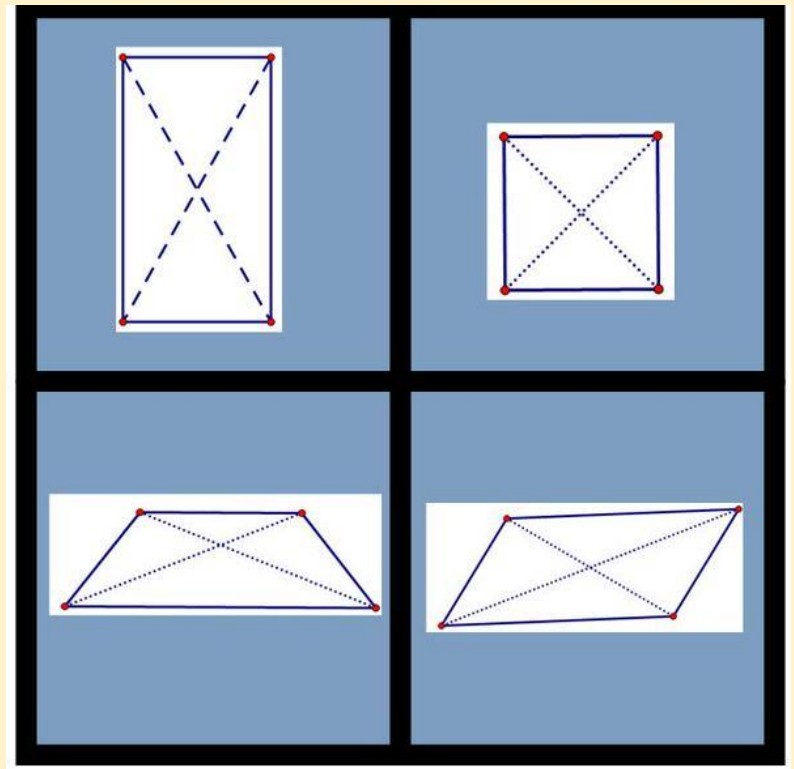
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Maths



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9	16
25	43



Which one is the odd one out in each set? Explain your reasoning.

Maths SATs papers

- Your child will sit three maths tests:
- Paper 1 is a 30 minute arithmetic test, covering calculation methods for all operations, including the use of fractions, percentages and decimals.
- Questions gradually increase in difficulty.
- There are 40 marks for this paper.
- Papers 2 and 3 are 40 minute tests, covering problem solving and reasoning.
- Pupils will still use their calculation skills but will need to answer questions in context and decide what is required to find a solution.
- They may also need to explain their answers.
- Each paper is worth 35 marks.

Arithmetic questions from previous papers (studied in years 3 to 5)

$$826 = 800 + \boxed{} + 6$$

$$213 \times 0 =$$

$$\boxed{} = 6,000 + 90$$

$$\boxed{} + 5 = 341$$

$$602 - \boxed{} = 594$$

$$180 \div 3 =$$

Arithmetic questions from previous papers (studied in year 6)

$$2\frac{5}{6} - \frac{3}{4} =$$

$$\frac{1}{3} + \frac{2}{6} + \frac{5}{18} =$$

$$\frac{1}{3} \div 6 =$$

$$\frac{2}{7} \times \frac{5}{9} =$$

$$38\% \text{ of } 750 =$$

Reasoning questions from previous papers

$\frac{1}{5}$ of a number is 22

What is the number?

1 mark

Write the missing number to make this **division** correct.

$$15,000 \div \boxed{} = 75$$

1 mark

18

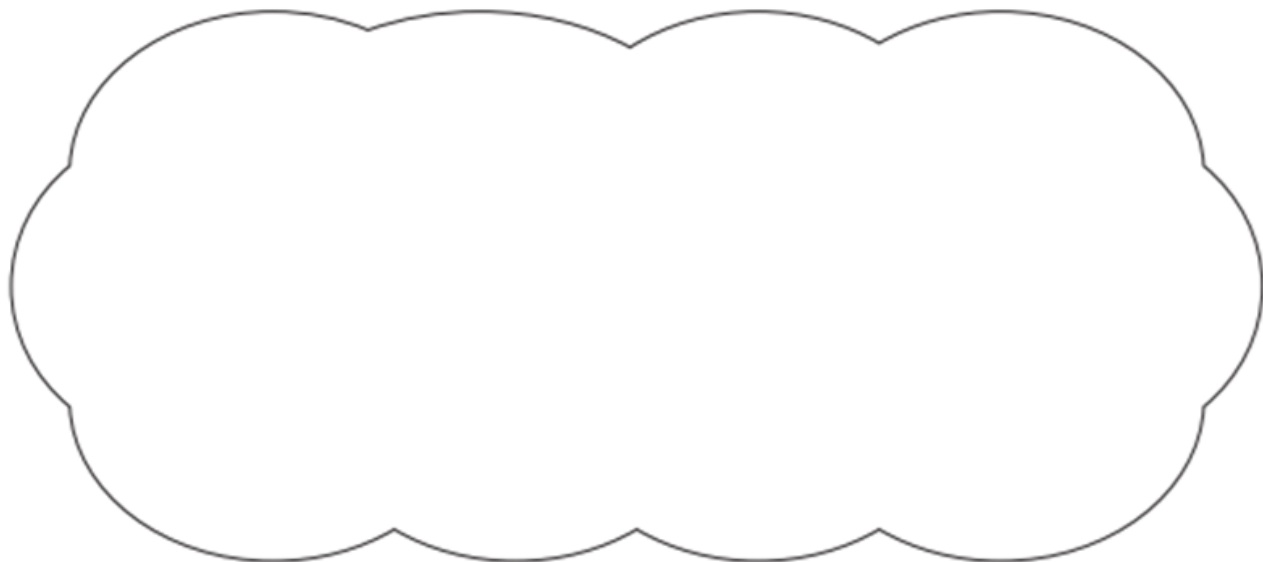
Circle the **prime** number.

95

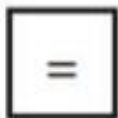
89

87

Explain how you know the other numbers are **not** prime.



1 mark



Write the correct symbol in each box to make the statements correct.

11×12 15×10

$90 \div 30$ $60 \div 20$

$120 \div 4$ $160 \div 8$

30×8 100×10

2 marks

There are 25 classes in a school.

Each class has 34 pupils.

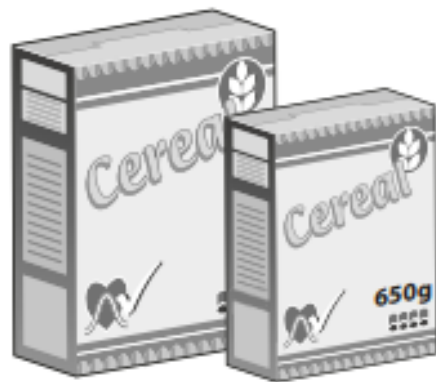
62% of all the pupils play a sport after school.

What number of pupils do not play a sport?

A small box contains **650** grams of cereal.

A large box contains **20% more** cereal.

One portion of cereal is **40** grams.



How many **full** portions are in a **large** box?

These are the prices of some vegetables in a shop.



Mushrooms
£3.20 for 1 kg



Carrots
60p for 1 kg

Layla buys **500 grams** of mushrooms and $1 \frac{1}{4}$ **kg** of carrots.

She pays with a **£5** note.

How much change does Layla get?

What does mastery in maths mean?

A pupil really understands a mathematical concept, idea or technique if they can:

- Describe it in his/her own words
- Represent it in a variety of ways
- Explain it to someone else using correct mathematical vocabulary
- Make up his/her own examples
- Make connections
- Recognise and use it in new situations and contexts

Being a mathematician is not just about being able to do arithmetic quickly

What are we doing in school?

- A focus on arithmetic (concepts as well as procedures) to improve fluency, accuracy and efficiency. This includes mental methods as well as written. Pupils have areas to work on following their arithmetic test.
- In lessons we use equipment, diagrams and real-life examples to help pupils understand and to remember.
- Our 'Discover' tasks involve problem solving from different contexts which we solve through group discussion and exploration prior to learning new procedures.
- We link concepts so there is less to remember, e.g. multiplying by 1000 and measures, and number lines and time problems or temperatures.
- Revising previous learning through retrieval activities
- Test practice - so pupils know what to expect in May.
- Build confidence and resilience as mathematicians and learning about our mistakes

- The school have purchased revision and practice books for every pupil.
- We have some small group teaching of arithmetic targets.
- 'Purple Ruler' small group interventions (online) out of school time.

Contents

Section One — Number & Place Value

Ordering Numbers
Negative Numbers
Roman Numerals
Decimals
Rounding
Practice Questions

Section Two — Calculations

Written Addition and Subtraction
Written Multiplication
Written Division
Multiplying and Dividing by 10, 100 & 1000
Multiplying and Dividing with Decimals
Order of Operations
Estimating and Inverses
Multiples and Factors
Prime Numbers
Square and Cube Numbers
Practice Questions

Section Three — Fractions, Decimals & Percentages

Fractions
Comparing Fractions
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Adding and Subtracting Fractions
Dividing Fractions
Equivalent Fractions and Decimals
Fractions, Decimals and Percentages
Practice Questions

Section Four — Ratio, Proportion & Algebra

Ratio, Proportion and Unequal Sharing
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Formulas and Combinations
Finding Missing Numbers
Number Sequences
Practice Questions

Section Five — Measure

Units and Conversion
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Perimeters and Areas
Areas of Triangles and Parallelograms
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Section Six — Geometry

Angle Rules
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Properties of Shapes
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Section Seven — Statistics

Tables and Pictograms
Bar Charts and Line Graphs
Pie Charts
The Mean
Practice Questions

Answers
Index

CGP

Key Stage Two Maths



SATS Revision Book

Ages
10-11

Negative Numbers

Negative numbers are just numbers that are **less than zero** — you'd read the number '-2' as 'minus two'.

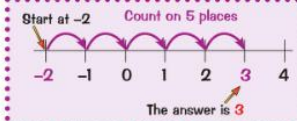
Adding and Subtracting Negative Numbers

Number lines are really useful for problems using **negative numbers**.

EXAMPLES:

What is $-2 + 5$?

Work out $-2 - 13$.

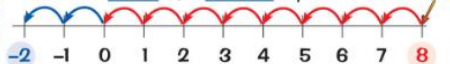


EXAMPLE:

The temperature in Chetna's cellar is 8°C . The temperature in her garden is 10°C colder. What is the temperature in her garden?

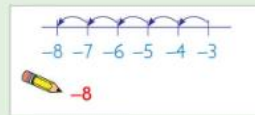


You need to **subtract 10**, so **count back 10** places. Start at 8°C .



Worked Examples

1 Work out $-3 - 5$.



- 1) Draw a number line first.
- 2) Start at -3 .
- 3) Count back 5 places.

Practice Questions

- 1) Charlie is flying around the world. She has already flown 3 872 651 m.
 - a) What is the digit in the hundreds place of this number?
 - b) Write 3 872 651 out in words.
- 2) Cho wins six hundred thousand, two hundred and eighty-one pounds on a quiz show.

How can I help with maths homework?

- Set aside some time so that there are no distractions and the atmosphere is calm. It may help to set a time limit or plan to take a break.
- Stay positive and praise effort and focus, rather than just correct answers.
- Don't tell them that you were bad at maths as school or that you disliked it - they might start to feel that way themselves.
- Use the red revision books first to support with understanding.
- Encourage them to draw and annotate diagrams
- Remind them that making mistakes is part of the learning process.
- Speed is not as important as understanding - although being able to recall number facts will help now and in the future.
- Ask them to explain their thinking and methods to you - it will help them to develop and clarify their own understanding and identify any calculation errors or misconceptions.
- Don't do their homework for them. It is better to focus on a fewer questions and for them to complete them with understanding and build foundations for further study.
- Allow time for multiplication fact practice on Times Tables Rock Stars.

CGP

Key Stage Two
Maths



SATS Question Book

Ages

10-11

Includes answers

CGP

Key Stage Two
Maths



SATS Revision Book

Ages



MULTIPLICATION & DIVISION.
SOLVED.

National Curriculum areas that require knowledge of times tables facts.

multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication • divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context • divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context • perform mental calculations, including with mixed operations and large numbers • identify common factors, common multiples and prime numbers • use their knowledge of the order of operations to carry out calculations involving the 4 operations • solve problems involving addition, subtraction, multiplication and division • use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy • use common factors to simplify fractions; use common multiples to express fractions in the same denomination • compare and order fractions, including fractions >1 • add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions • multiply simple pairs of proper fractions, writing the answer in its simplest form • divide proper fractions by whole numbers • associate a fraction with division and calculate decimal fraction equivalents for a simple fraction • identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places • multiply one-digit numbers with up to 2 decimal places by whole numbers • use written division methods in cases where the answer has up to 2 decimal places • solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts • solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison • solve problems involving similar shapes where the scale factor is known or can be found • solve problems involving unequal sharing and grouping using knowledge of fractions and multiples • use simple formulae • generate and describe linear number sequences • express missing number problems algebraically • find pairs of numbers that satisfy an equation with 2 unknowns • enumerate possibilities of combinations of 2 variables • solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate • use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places • convert between miles and kilometres • recognise that shapes with the same areas can have different perimeters and vice versa • recognise when it is possible to use formulae for area and volume of shapes • calculate the area of parallelograms and triangles • calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3] • know that the diameter is twice the radius

How can I help my child develop mathematical skills?

- Play games at home with them, especially those which involve money and developing a strategy.
- Find opportunities to practise telling the time and working out how long it will be until something happens.
- Ensure they know the months of the year, and how many days are in them.
- Find opportunities to count money, work out costs and to calculate change.
- When there are discounts, such as 10% off or $\frac{1}{3}$ off, help them to work out the new cost.
- Look for examples of 2D and 3D shapes around the home.
- Measure quantities when cooking so that they know what a kilogram looks like. Scale the recipes up or down for a different number of people.

Helpful videos:

Google classroom materials – code: **vc6nx3o**

There are arithmetic videos in the materials section for those who find it easier to watch someone modelling processed. There are some practice arithmetic and reasoning papers on here as well.

Helpful websites:

[KS2 Maths - BBC Bitesize](#)

[Key Stage 2 Maths | KS2 Age 7-11| Education Quizzes](#)

[Key Stage 2 Maths - Topmarks Search](#)

[Fractions videos](#)



Adding and subtracting fractions videos



Comparing and ordering fractions



Multiplying and dividing fractions

[Practice papers](#)



SATs Arithmetic practice papers



SATS Reasoning practice papers



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SEND and SATS access arrangements



3 levels of SEND support

- EHCP – the child has an individual Education, Health and Social Care plan.
- SEND Support – the child is on our SEND register and teachers make adaptations to support access to learning above and beyond Quality First Teaching practice
- Children with a SEND need that can be met within Quality First Teaching and standard adaptations

Access arrangements available for SATS

- Taking the test in a room in a smaller group of students
- Taking the test in a room as an individual
- Extra time 25%
- Brain Breaks
- Readers
- Buff Paper
- Enlarged text
- Scribe

How do our students get to access support?

- Students with an EHCP will get all access requirements automatically
- If we need to open papers ahead of time to photocopy and/or enlarge the school applies to be able to do this for specific named children who DO NOT have EHCPs
- If children on SEND support on the SEND register require access requirements we MUST apply ahead of time and I will let you know if this is successful
- If children require access arrangements and are not on SEND register, eg buff paper for dyslexia, we can also apply for this.

Mock SATs and volunteers

- All access requirements will be in place to support students in their mocks.
- Volunteers please- email will be sent through school comms and Facebook.
- Mocks SATs 10th February 2025 please volunteer by 17th January – training will be offered



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Mental Health and Wellbeing



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Things to keep in mind...

We are all cheering the children on and want them to do their best – SATs are about showing off!

- Make sure the children get plenty of sleep and stay well fed/hydrated – sleep, food and water help keep the brain working.

We will be providing the children with breakfast during SATs week

- Please remember that the Year 6 SATs are just one week of the children's entire life.

If the children are unsure of anything they just need to remember we are here to help!

Mental Health Support Team

The MHST will be coming into school to talk to the Year Six children leading up to SATS week...

MANAGING EXAM STRESS

This session offers young people theory around stress and how this can impact emotions and behaviour. It also looks at possible strategies to reduce stress during these difficult times. We also touch upon procrastination and how thinking compassionately about ourselves can support us when we struggle to start tasks such as revision.



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Questions



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