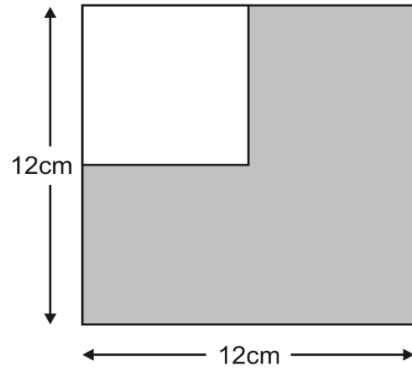


# Welcome

Multiplication Check Information Session

A white square is painted in one corner of a grey square.

Each side of the white square is **half** the length of a side of the grey square.



Not actual size

What is the area of the white square?

Tick the fractions **less than**  $\frac{5}{8}$

$\frac{1}{2}$

$\frac{2}{8}$

$\frac{3}{4}$

$\frac{7}{16}$

$\frac{24}{32}$



The International Space Station orbits the Earth at a height of 250 miles.

What is the height of the International Space Station in **kilometres**?

Use 8 kilometres equals 5 miles.

km

These are examples of questions that children are expected to answer in Years 5 and 6.

For each other them, times tables are essential in order to find the answer. We start teaching children the foundations and skills they need for these questions as soon as multiplication is introduced.

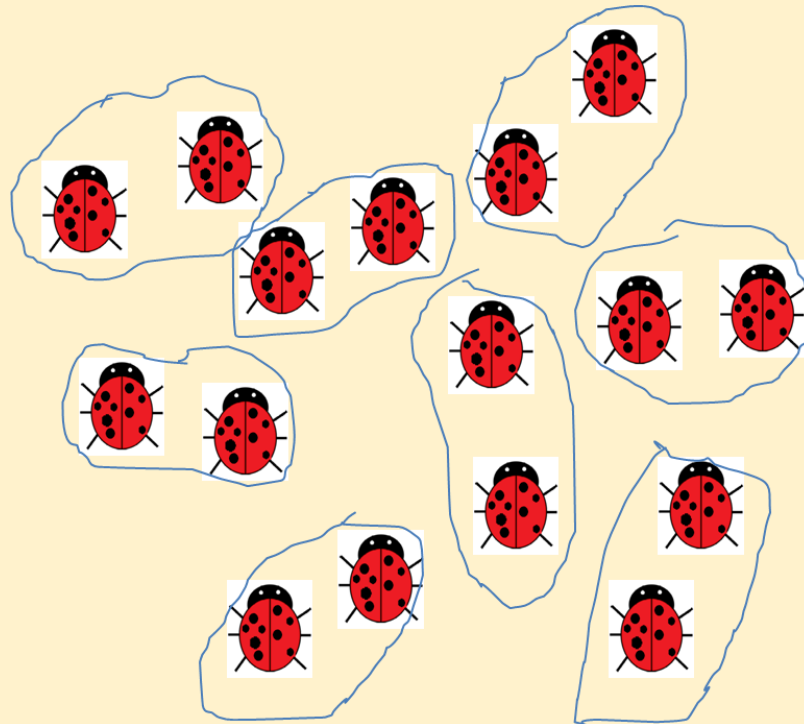
By working on multiplication skills earlier, we allow children to be fluent in these so they can approach more complex questions, such as these, confidently. Children progress in these skills in small steps each year.

# Times Tables are vital to the curriculum throughout school

## Reception and Year 1

Some children may start grouping objects in twos

Some children may count on or back in fives and tens



# Times Tables are vital to the curriculum throughout school

## Year 2

*Know and recall multiplication and division facts for 2,5 and 10s*

$$2 \times 5 = 10$$

$$5 \times 2 = 10$$

$$10 \div 2 = 5$$

$$10 \div 5 = 2$$

# Times Tables are vital to the curriculum throughout school

## Year 3

*Know and recall multiplication and division facts for 3, 4 and 8*

$$3 \times 5 = 15$$

$$5 \times 3 = 15$$

$$15 \div 3 = 5$$

$$15 \div 5 = 3$$

$$24 \times 3$$

# Times Tables are vital to the curriculum throughout school

## Year 4

*Know and recall multiplication and division facts for 6, 7, 9, 11 and  
12*

$$3 \times 12 = 36$$

$$12 \times 3 = 36$$

$$36 \div 3 = 12$$

$$36 \div 12 = 3$$

$$274 \times 7$$

$$673 \div 7$$

$$23 \times 10 \times 3$$

# Times Tables are vital to the curriculum throughout school

## Year 5

Children are expected to be fluent in their times tables up to 12x by the end of Year 4.

- *Know and recall squared and cubed numbers (  $3 \times 3$  ,  $3 \times 3 \times 3$  )*
  - $4,623 \times 45$
  - $4724 \div 8$
  - $40 \times 700$
  - $5 \times 90$
- What is one twelfth of 36?
  - Equivalent fractions

Times Tables are vital to the curriculum throughout school

Year 6

Children are expected to be fluent in their times tables up to 12x by the end of Year 4.

$$3624 \times 76$$

$$3624 \div 65$$

What is nine tenths of 70?

What is 60% of 300?

What is 71% of 1800?

Ratio



Children who are not fluent in their times tables by the end of Year 4 will struggle to access the Year 5 and Year 6 curriculum, making learning new skills and concepts far more difficult.

*“Leaving primary school with a fundamental grasp of basic numeracy is as important as leaving being able to read. And just as the phonics check has helped more children learn to read, this will ensure more pupils know their times tables.”*

*Nick Gibb, Schools Minister*

# Year 4 Multiplication Tables Check (MTC)

*'By the end of year 4, pupils should have memorised their multiplication tables up to and including the 12 multiplication table and show precision and fluency in their work'.*

## **National Curriculum 2014**

- The MTC is a statutory KS2 assessment to be taken by pupils at the end of Year 4. This sits alongside the existing end of KS2 SATs assessments in Year 6.
- The MTC is focused on the fluent recall of multiplication facts ( 4 x 9 ).
- The MTC will be delivered as an online, on-screen digital assessment and should take less than 5 minutes to complete. This will be taken in school on either a desktop computer or a tablet.

# What will the assessment look like?

The assessment will take place over a three-week window in June 2020. Teachers can choose when the children will sit the times table check during that three-week window.

The children will be expected to answer 25 multiplication questions based on all tables up to 12x.

The children will be expected to do this in 6 seconds or less, meaning that quick recall of tables rather than working them out is **essential**.


The test will be scored automatically and will be marked out of 25. Data will be reported back to schools, parents and pupils as a score out of 25.

Children will only be considered to be fluent in their times tables if they achieve **full marks** in the assessment.

# An example...

Remaining time: 5

$11 \times 2 =$

1	2	3
4	5	6
7	8	9
	0	Enter

# Access Arrangements

Access arrangements can be made for children who:

- have an Education, Health and Care (EHC) plan
- have an Individual Education Plan (IEP)
- have English as an additional language and have limited fluency in English

If you have any questions, please get in contact with the school.

# What if my child does not achieve full marks in the MTC?

The MTC will serve as a measure of how well children understand and can recall their times table knowledge.

Times tables are vital to the Year 5 and Year 6 curriculum and gaps in their knowledge will hold them back when completing work in Years 5 and 6.

Any child who does not achieve full marks in the MTC will receive further additional support in the form of interventions to plug any gaps in their times table knowledge in Years 5 and 6.

The MTC will serve as a helpful tool for teachers and schools in identifying children with gaps in their mathematical knowledge.

# What are we doing to prepare children in school?

Times tables are taught every day as part of your child's maths lessons and Flashback Maths sessions.

All children have access to a Times Table Rockstars account. This is an excellent online game where children are encouraged to practice their tables in a competitive way against peers, themselves or other members of the school

Children complete a sound check each week so teachers can see where they may need additional support.

Any children who are not secure with their times tables at different stages of the year receive interventions to help them catch up



# How can you help at home?

- Encourage your child to actively use Times Table Rockstars. They can access this from a desktop computer or any tablet.
- Quiz your children regularly and at random on their times tables. This could be done whilst cooking tea together, during car journeys or on the walk to school
- Show your children some fun 'tricks' for remembering the trickier times tables, like nines or the sevens.
  - Use times table wall charts at home
- Create flashcards with your child for each times table and play games like snap or matching them up in specific time. This works well as a competition between siblings, parents or even other family members!
  - Challenge your children to 'beat Siri' in their times tables!
  - Support school in any times table practice we send home