



Donnington Wood CE
Junior School

Key Instant Recall Facts

Year 6: Autumn 1

Target: I can recall square numbers up to 12^2 and cube numbers up to 5^3 .

By the end of this half term, children in Year 6 should know the following facts and be able to recall them **instantly**:

1^2	$1 \times 1 = 1$
2^2	$2 \times 2 = 4$
3^2	$3 \times 3 = 9$
4^2	$4 \times 4 = 16$
5^2	$5 \times 5 = 25$
6^2	$6 \times 6 = 36$
7^2	$7 \times 7 = 49$
8^2	$8 \times 8 = 64$
9^2	$9 \times 9 = 81$
10^2	$10 \times 10 = 100$
11^2	$11 \times 11 = 121$
12^2	$12 \times 12 = 144$

Children should also be able to recognise whether a number below 150 is a square number or not.

They should also begin to complete simple calculations for larger numbers using their knowledge of square numbers, e.g. 24^2 is 24×24 .

1^3	$1 \times 1 \times 1 = 1$
2^3	$2 \times 2 \times 2 = 8$
3^3	$3 \times 3 \times 3 = 27$
4^3	$4 \times 4 \times 4 = 64$
5^3	$5 \times 5 \times 5 = 125$

Key Vocabulary

square number, squared, multiply, multiplied by itself, square root, cube number, cubed,

Examples of Key Questions

What is 7 squared?

What is 11 multiplied by itself?

What is the square root of 144?

100 is what number squared?

Is 121 a square number? How do you know?

Top Tips to help at home

The secret to success is to practise **little** and **often**. Use your time wisely. Can you practise these facts whilst walking to school, during a car journey or even at breakfast? You don't need to learn them all at once: perhaps try learning a fact a day.

Sing songs or chants – Mr DeMaio, Laugh Along and Learn and Numberock all have song catchy tunes to help your child to remember their multiplication tables on YouTube. These are crucial for being able to recall square numbers.

Use memory tricks – For those hard-to-remember facts, www.multiplication.com has some great strategies to help your child improve their recall including rhymes, picture stories and games.

Useful website links

[Times Table Rockstars](#) – Every child has their own account.

[Hit the Button](#)
Square numbers

[BBC Bitesize](#)
Square and cube numbers

[Timestables.co.uk](#)
Lots of different games

[Wordwall.net](#)
Lots of different games

