



## Be a maths investigator!

Last year my age was a square number.  
 Next year it will be a cube number.  
 How old am I?  
 How long must I wait until my age is both  
 a square number and a cube?

### Useful websites!

[www.studyzone.tv](http://www.studyzone.tv) > game85-coded4e68207b5df573b0 ...

#### I Know All The Square Numbers Up To 12 Squared ...

This activity allows you to rehearse the rapid recall of square numbers to 12 squared. Play against the clock and see what level you can get up to before you run ...

[www.topmarks.co.uk](http://www.topmarks.co.uk) > Search > q= square numbers

#### square numbers - Topmarks Search

There are four game modes: Find a Number, Find the Number Between and Count On and Count Back. The counting on and back games reinforce the vocabulary ...

[www.transum.org](http://www.transum.org) > Maths > Game > Square\_Pairs

#### Square Pairs Game - Transum

A game for two players who take turns to select two numbers that add up to a square ... This web site contains over a thousand free mathematical activities for ...

## Year 6

Learn by heart of the week:  
**Square numbers**



$$0^2 = 0 \text{ so } (0 \times 0 = 0)$$

$$1^2 = 1 \text{ so } (1 \times 1 = 1)$$

Now record for all numbers upto 12

Can you do them in your head?

### Get creative!

Make a board game matching square numbers to the answers.

Make a snake and ladders game focussing on square numbers.

Could you make a 4 in a row game? **eg where you have to square the number on the board to put your counter on it.**

Could you make a game to play in the garden **eg a target game where you can get square points for**

## This weeks task!

Recall all the number squares up to 144.

### Useful information!

A **square number**, sometimes also called a **perfect square**, is the result of an **integer multiplied** by itself. 1, 4, 9, 16 and 25 are the first five **square** numbers.

Square numbers are **non-negative**. Another way of saying that a (non-negative) number is a square number, is that its **square root** is again an integer. For example,  $\sqrt{9} = 3$ , so 9 is a square number.

### Don't forget!

Keep working on the times tables and division facts so you don't forget them.

Little but often is best.