

# Year 5 Log Week beginning 19.11.18

Highlights of the week:

We're getting stuck into a new unit in maths; multiplication and division. We've focused on identifying and solving problems related to **multiples, factors, prime, squared and cubed numbers**. Lots of new vocabulary for many of this week.

## Factors & Multiples

Find the different factors of a number by working out which numbers divide into it evenly.

What are all the factors of 12?

Multiples appear in the number's multiplication table. You can calculate them by counting on by that number.

What are all the multiples of 12?

## PRIME NUMBERS

So what is a prime number?  
Prime numbers are special numbers that can only be divided by themselves and 1.

For example 41 is a prime number.  
It can only be divided by 1 and 41.

In literacy we have watched an exciting clip 'Hunted' and have sequenced the main events in the story using the structure:

- Background**
- Character development**
- Rising action**
- Climax**
- Falling action**
- Resolution**

We then designed comic strips before beginning to recognise as a class which language features are effective to use to write the story as a conquering action tale.

For instance agreed you could make a n opening really effective by: introducing a setting, bringing it to life and making it suspenseful though using **verbs, adjectives, similes, alliteration or onomatopoeia**. As a class we began orally rehearsing our openings and character developments before writing our own. We're very proud of our action writing so far and have read them aloud to one another to help us make improvements.

## Square Numbers

1 <sup>2</sup>	1 x 1 = 1
2 <sup>2</sup>	2 x 2 = 4
3 <sup>2</sup>	3 x 3 = 9
4 <sup>2</sup>	4 x 4 = 16
5 <sup>2</sup>	5 x 5 = 25
6 <sup>2</sup>	6 x 6 = 36
7 <sup>2</sup>	7 x 7 = 49
8 <sup>2</sup>	8 x 8 = 64
9 <sup>2</sup>	9 x 9 = 81
10 <sup>2</sup>	10 x 10 = 100
11 <sup>2</sup>	11 x 11 = 121
12 <sup>2</sup>	12 x 12 = 144
13 <sup>2</sup>	13 x 13 = 169
14 <sup>2</sup>	14 x 14 = 196

The product of a number multiplied by itself.  
e.g. 10 x 10 = 100 which can be shown as:  
10<sup>2</sup> = 100  
10 squared = 100  
10x10 grid

## Cube Numbers

1 <sup>3</sup>	1 x 1 x 1 = 1
2 <sup>3</sup>	2 x 2 x 2 = 8
3 <sup>3</sup>	3 x 3 x 3 = 27
4 <sup>3</sup>	4 x 4 x 4 = 64
5 <sup>3</sup>	5 x 5 x 5 = 125
6 <sup>3</sup>	6 x 6 x 6 = 216
7 <sup>3</sup>	7 x 7 x 7 = 343
8 <sup>3</sup>	8 x 8 x 8 = 512
9 <sup>3</sup>	9 x 9 x 9 = 729
10 <sup>3</sup>	10 x 10 x 10 = 1000
11 <sup>3</sup>	11 x 11 x 11 = 1331
12 <sup>3</sup>	12 x 12 x 12 = 1728
13 <sup>3</sup>	13 x 13 x 13 = 2197
14 <sup>3</sup>	14 x 14 x 14 = 2744

Formed by multiplying a digit by itself 3 times.  
e.g. 10 x 10 x 10 = 1000 which can be shown as:  
10<sup>3</sup> = 1000  
10 cubed = 1000  
10x10x10 cube

## Forces Word Mat

unit, mass, median, compress, extend, newton (N), gravity, force meter, average, air resistance, weight, resist/resistance, buoyancy, exert/apply, mean, friction, explanation, repel/attract.

In science this week we have been look at **forces**, thinking about balancing forces.

In computing this week we worked on improving our touch typing skills using BBC **dance mat** which you can find at: <https://www.bbc.com/bitesize/articles/z3c6tfr>  
It would be a great idea to have a practise at home, **perhaps you could write a story to share in class?**

Homework:

Well done on our moon spotting last week, we discussed how interesting the shapes were!

Can you have a go at Number Cruncher! A maths problem solving activity looking at factors, multiples, prime, square and cube numbers. Just try to fill in the ones you know... if you don't know, don't worry! 😊

You'll need to know:

**Abundant number**= A number is called abundant if the sum of its factors (without 1 and the number itself) is greater than the number itself.

Number	Factor	Sum of factors (not 1 or itself)	Abundant?
10	1,2,5,10	2 + 5 =7	No 7 is less than 10
12	1,2,3,4,6,12	2+3+4+6 =15	Yes 15 is more than 12

**Composite number**= A number which have a factors other than 1 or itself (i.e. NOT PRIME)

Phew! Have fun...

Parent/Carer comment:

**TEST TO BE TAKEN BY WEDNESDAY 28.12.18 ON spellingframe.**

- This week's spelling rule: words ending- ough

- Bought
- Brought
- Dough
- Enough
- Fought
- Rough
- Thorough
- Though
- Thought
- Through
- Tough

**-Please also practise your numbered group spellings.**

**Year 5 Log Week beginning 19.11.18**

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