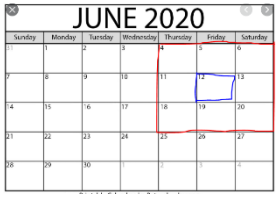
Year 4

Week 6: Magic

You do not need to print off any of the challenges. You can complete them on a piece of paper and take a picture of your work to upload it to Twitter or Facebook.

English	Spelling	Maths	Wider Curriculum	Wellbeing
Descriptive writing Choose the magical land you are going to travel to:  **Activity 1:**  **Activity 2** Plan your setting description using the setting description mat. (Copy attached) **Activity 3** Write the description of your magical land.	**Spellings** *Words ending in ous with no definitive root word* You have a challenge using this week's words on Spelling Shed. If you don't have access to Spelling Shed, there is a list of words with the prefix -ous for you to practise with an activity. 	**Maths Activity 1** Calendar magic to impress your friends and family. Explanation and practise is below.  **Maths Activity 2** Find the magic number with the magic square. Explanation is below. 	**Science** Magic finger trick. Make pepper on water move as if by magic. Watch the video and complete the experiment. Can you explain why?  **Art** Draw your own cartoon witch  All you need is paper and something to draw with. Watch the video and give it a go!	**E-safety** Play the ThinkUKnow game to revise your knowledge on how to stay safe online. Game link

English


Underground Sea
Island
Swamp
Volcanic Island
Island
Mountain
Badlands
Swamp
Mountain
Bayou
Swamp
Forest
Plateau
Mountain
Plains
Scrubland
Plains
Swamp
Taiga
Mountain
Forest
Tropical Island
Forest
Island
Savannah
Forest
Plains
Tundra
Plains
Island

The Magic Door

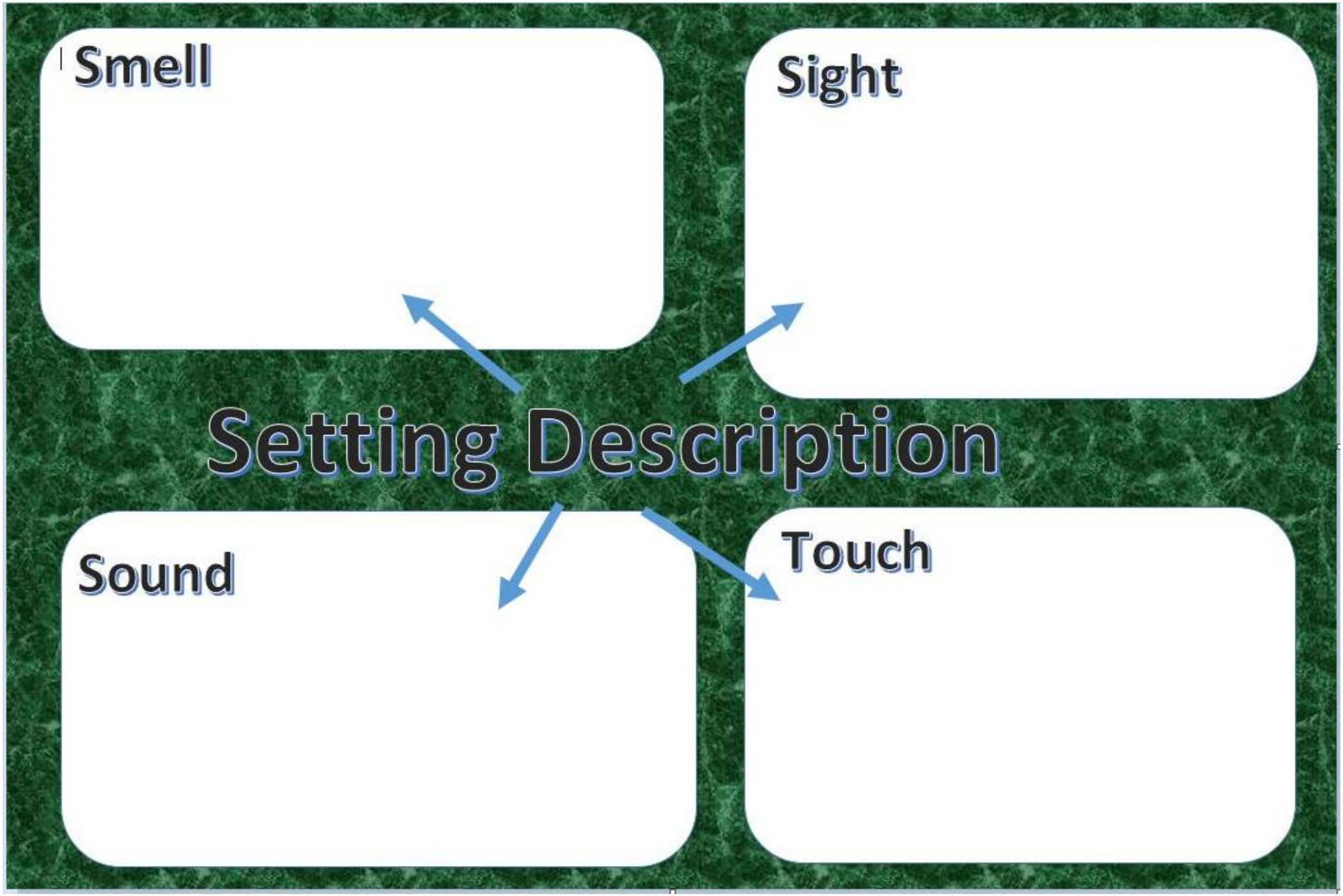
Imagine that you have found a magic doorway into another world!

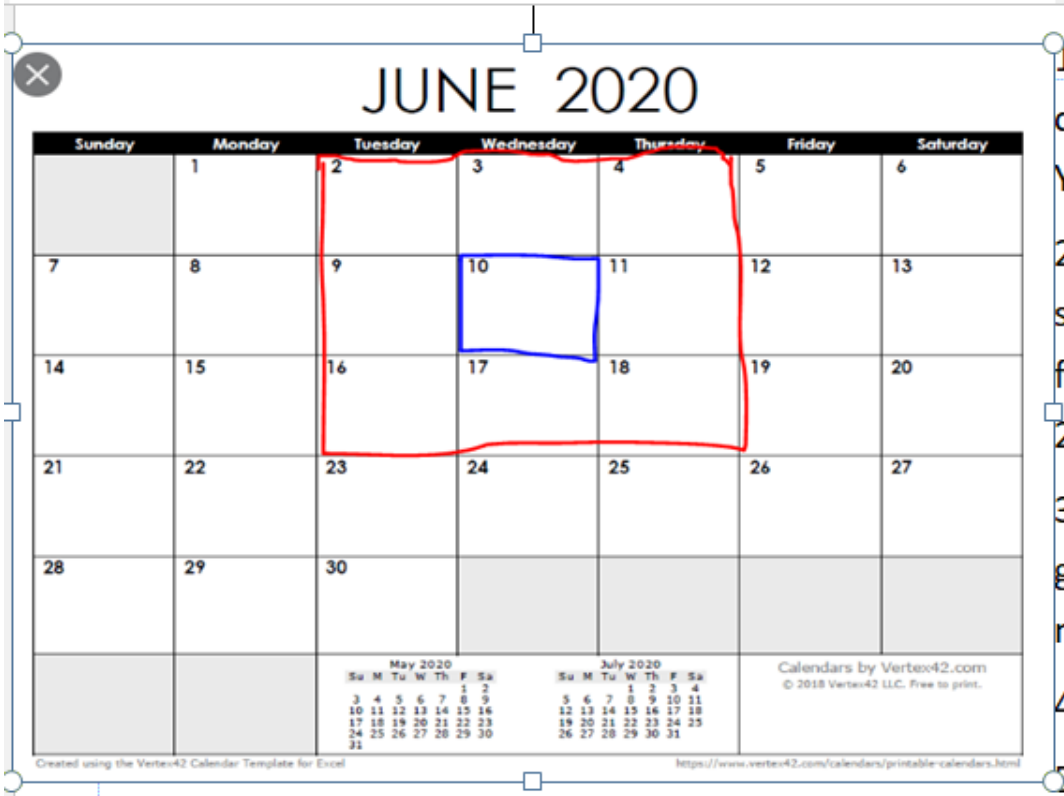
What does your door look like?

Where is your door? (In an old house, in a tree trunk that only opens when a magic word is spoken or at the bottom of a garden?)

What sort of magic will be on the other side? (Another planet, the past, the future, a magic world of wizards?)

How do your characters get back to the real world?


Smell
Sight
Setting Description
Sound
Touch



1. Ask your friend to choose a 3 x 3 grid on the calendar, anywhere. See on the calendar in red. You will have 9 squares to work with.

2. Promise your friend you can work out the sum of all the dates in each of the 9 squares faster than them. While they try and work out 2+3+4+9+10+11+16+17+18, you need to do this.

3. Secretly, put the middle number of the 3 x 3 grid into your head and times it by 9. My middle number, which I've shown you in blue, is 10.

4. 10 x 9 = 90

5. What is 2+3+4+9+10+11+16+17+18? Work it out! This works with any 3 x 3 grid on any calendar layout like the one above.

6. Here is a trick to multiply any number by 9. Times it by 10, then take that number away. E.g. 18 x 9 = 18 x 10—18 = 180—18 = 162. It might be worth practising multiplying bigger numbers by 9 before you show off this trick to others.

Magic Square

A Magic Square is a great tactile, thinking game, that has you arranging three numerals (horizontal, vertical, and diagonal) so they **all equal one sum**, a magical number! I love the use of milk caps because they can slide and glide around on a flat table top. Magic Squares are also a good way for you to improve your addition skills using three whole numbers in an equation.

I've had a go but I haven't found the magic number yet. I need to keep trying by re-arranging the numbers and checking. This is called **trial and error** and is a good way of tackling a problem.

Why don't you have a go—make your own counters out of milk caps or cardboard and re-arrange them in a 3 x 3 grid.

All rows, columns and diagonals should add up to the same number.

t	a	u	z	b	b	l	z	e	x	h	u	v	f	c
g	s	g	j	e	a	l	o	u	s	n	a	t	l	r
m	a	e	n	o	r	m	o	u	s	q	s	x	l	i
s	e	r	i	o	u	s	q	u	a	s	z	s	c	a
g	n	r	y	u	h	b	o	e	o	e	u	m	l	h
o	t	s	u	m	p	i	y	q	a	o	y	n	q	s
r	f	v	r	s	r	o	e	s	l	u	q	d	u	l
g	s	o	u	u	e	r	u	u	j	s	y	o	h	q
e	q	t	c	r	q	o	b	c	j	a	d	b	b	x
o	p	n	w	g	e	a	o	y	d	n	d	v	x	n
u	j	r	j	d	f	m	u	o	e	x	n	i	o	m
s	f	g	i	a	k	r	h	m	z	i	t	o	c	y
u	u	h	m	g	n	d	e	u	r	o	i	u	y	s
n	h	y	b	p	c	r	f	s	g	u	f	s	s	m
l	f	n	d	q	t	y	u	k	c	s	y	z	i	d

tremendous

serious

enormous

hideous

jealous

fabulous

curious

gorgeous

anxious

obvious