

Kestrels Home Learning Wednesday 8<sup>th</sup> July  
Weekly tasks to do when possible:

**Grammar:** Write some sentences with noun phrases (check the Grammar slide for a definition)

**Spelling:** Practise writing words with prefixes and then cover them and rewrite them, look at the slides for extra activities.

**Arithmetic:** Finding percentages of amounts.

Please make sure you are reading daily, for at least 20 minutes.

**Mexico Activities for the week!**

I have suggested some activities below which are suitable for a Year 5/6 class but can also be done by younger children with some help.

Choose the activities you would most like to do and present them creatively! You can present your work however you like, for example, in the form of artwork, a scrapbook, a PowerPoint.

**Our weekly focus for this week is Art.**

**Please see the next slide for the activities.**

## Suggested activities for the week:

- Research how Mexican art has changed through time.
- Create your own piece of Aztec or Mayan art!
- Research some famous Mexican art and artists and create a presentation about them or try to copy a piece of art yourself. One of my favourites is Frida Kahlo.
- Try out one of the crafts:



Tissue paper flowers for a fiesta!



Design a sombrero!



A flower garland like Frida Kahlo's!



**Worry dolls-** Muñeca Quitapenas are dolls that remove worries. Worry dolls help ease the child's worries or can be used to make wishes. The doll is told the worry, then placed under the child's pillow. The doll does the worrying while the child sleeps.



Make a pinata!



Stone cacti



Making Cinco de Mayo Huichol yarn pictures

Grammar: Write some sentences with noun phrases.

**Noun phrases** are a **group of words**  
that do the job of **one noun**

**Spot the longest noun phrase:**

In my pocket were **lots of old and slightly sticky sweets** that I had forgotten to throw away.

# Spelling Rule Explanation

Prefixes are added to the start of a root word.

unplug      antisocial      submarine  
reclaim      disapprove      preview  
automatic      semicircle

How do these prefixes change the meaning?

**un:** not / reversal      **anti:** against  
**sub:** below / nearly      **re:** again  
**dis:** removal / not      **pre:** before in time  
**auto:** by itself      **semi:** half / partly

'un', 'dis' and 'mis' all have negative meanings.  
'in' can mean *not*. It may also be spelt 'ir', 'il' & 'im'.

incorrect    illegal    improper    irregular

il: before an 'l'                      im: before an 'm' or 'p'  
ir: before an 'r'                      in: before anything else

'in', 'ir', 'il' or 'im'?

\_\_possible                      \_\_logical  
\_\_rational                      \_\_active



Remember  
imp!

# Examples

How does the prefix change the meaning?

unfinished

replay

irreplaceable

discontented

autobiography

preheat

substandard

semicircle

anticlockwise

**THINK**: Which other words can you think of with these prefixes?

# Practice

Match the root word to the correct prefix.

## Starter

|     |       |
|-----|-------|
| mis | fold  |
| re  | like  |
| un  | match |
| pre | do    |
| dis | view  |

## Challenge 1

|      |         |
|------|---------|
| sub  | pilot   |
| auto | dote    |
| anti | natural |
| in   | marine  |
| un   | correct |

## Challenge 2

|     |          |
|-----|----------|
| in  | appear   |
| pre | possible |
| im  | fortune  |
| dis | active   |
| mis | occupy   |

THINK: Do any have more than one answer?

# Further examples

## auto

autograph  
autobiography  
autopilot

## mis

misfortune  
misunderstand  
mislead  
misplace  
misconduct  
mismatch  
misread

## anti

antisocial  
anticlockwise  
antibiotic  
antidote  
antiseptic

## dis

disappear  
disable  
dislike  
disbelief  
dissatisfaction  
disadvantage

## un

undo  
unfold  
unafraid  
unnatural  
uncertain  
unbolt  
unaware  
unable  
unhelpful  
unhappy

## pre

preview  
premature  
preoccupy  
prehistoric  
preface  
prefix  
preheat  
prejudge

## re

retry  
replace  
recall  
redo  
restock  
repay  
renew  
reassure

## sub

submarine  
substandard  
suburban  
subdivision  
subcontract

## in/im/il/ir

illiterate  
incorrect  
immodest  
illegal  
immortal  
impossible  
irregular  
illogical  
inactive  
irrational  
intolerant

## Note

These letters do not always act as a prefix at the start of a word

E.g. under,  
distant

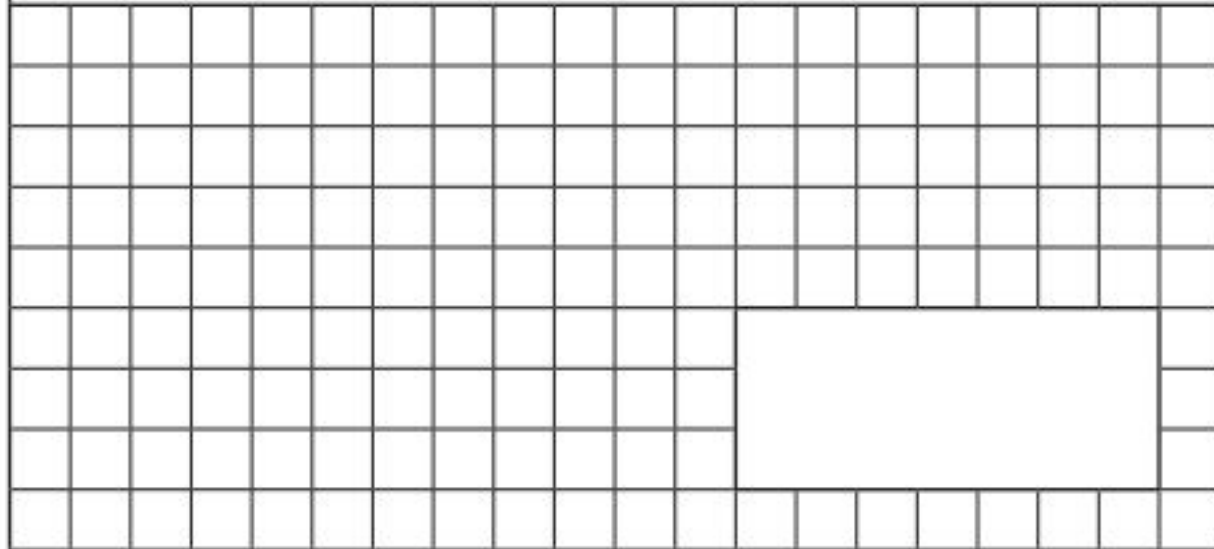
Some prefixes have more than one meaning

E.g. 'in' can mean not / without (*intolerant*) or into / towards (*incoming*).



Arithmetic: Finding percentages of amounts and working backwards...

$$1\% \text{ of } \underline{\hspace{2cm}} = 7.2$$



$$10\% \text{ of } \underline{\hspace{2cm}} = 35$$

$$25\% \text{ of } \underline{\hspace{2cm}} = 20$$

$$60\% \text{ of } \underline{\hspace{2cm}} = 15$$

$$74\% \text{ of } \underline{\hspace{2cm}} = 50$$

Can you make up your own?

# Maths- L.O: To work logically to calculate the answer to a problem.

## Triangle Investigation

You can explore today's puzzle using matchsticks, cocktails sticks, felt pens or anything else similar you have at home. You can also simply draw the lines.

### Sticky Triangles

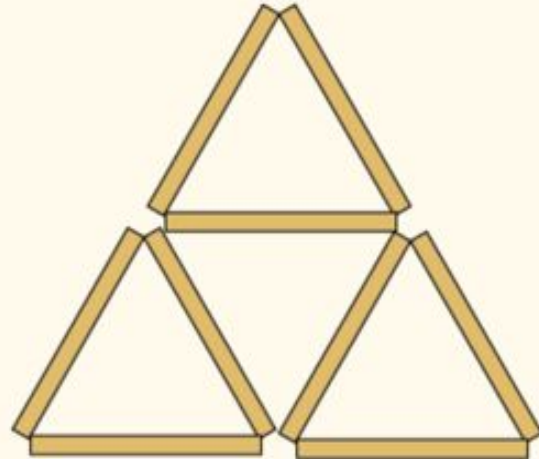
I was exploring a puzzle in which headless match sticks had to be moved to make a different number of triangles.

I made one small triangle

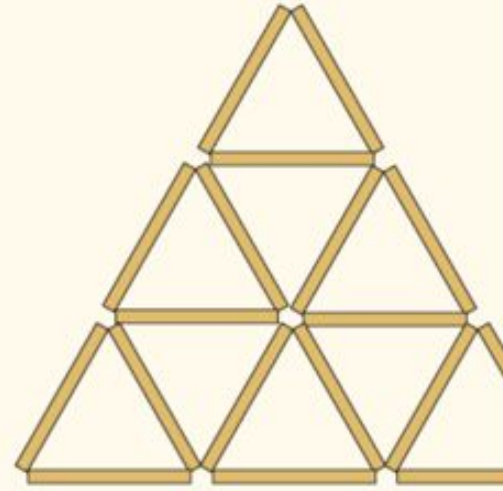


3 matches

I made it into 4 small triangles by adding 6 matches.



I added another row and counted the number of small triangles and counted the matches.



| row | number of triangles | number of sticks |
|-----|---------------------|------------------|
|     |                     |                  |
|     |                     |                  |
|     |                     |                  |

How many matches does each triangle in the pattern use?

How can you record your investigation?

What patterns can you see?

Is there a link between the number of rows and the total number of matches?

Is there a link between the number of small triangles and the total number of matches?

Is there a way of predicting how many will be in the 10<sup>th</sup> pattern without making it?

We can use algebra as a way of expressing or finding a rule for a pattern, allowing us to find any number, for instance the 100<sup>th</sup> number, of a pattern, without writing or drawing out the sequence up to 100.

For example,

Have a look at the squares and circles pattern on the next slide:

We can express these patterns using algebra. In the first picture of the first pattern, there is 1 square and 4 circles. I could record this in my table. In the 2<sup>nd</sup> picture, there are 2 squares and 6 circles and in the 3<sup>rd</sup> picture, there are 3 squares and 9 circles. After you have entered this information into your table, you may be able to spot a pattern. I found for the first pattern, the number of squares is multiplied by 2 and another 2 is added to find the total number of circles.

If you take the first picture  $1 \text{ square} \times 2 = 2$

$2 + 2 = 4$  circles.

I could express this pattern using algebra

$$C = 2S + 2$$

(C= Circle, S=square)

(Remember, when you put a number directly next to a letter, you are showing that the number substituted for the letter should be multiplied by the number next to it.)

|   |  |  |  |
|---|--|--|--|
| S |  |  |  |
| C |  |  |  |

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|   |  |  |  |
|---|--|--|--|
| S |  |  |  |
| C |  |  |  |

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|   |  |  |  |
|---|--|--|--|
| S |  |  |  |
| C |  |  |  |

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|   |  |  |  |
|---|--|--|--|
| S |  |  |  |
| C |  |  |  |

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|   |  |  |  |
|---|--|--|--|
| S |  |  |  |
| C |  |  |  |

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|   |  |  |  |
|---|--|--|--|
| S |  |  |  |
| C |  |  |  |

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|   |  |  |  |
|---|--|--|--|
| S |  |  |  |
| C |  |  |  |

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|   |  |  |  |
|---|--|--|--|
| S |  |  |  |
| C |  |  |  |

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Have a go at expressing the rest of the patterns with an algebraic equation.

Super challenge: Can you work out the algebraic equation for the Sticky triangles pattern?

# English - L.O. To read up to chapter 27 of Holes (pg 51).

<https://docs.google.com/viewer?a=v&pid=sites&srcid=YWJwbNByLm9yZ3xlbmdsaXNofGd4OjZhMjExYmUwOTlkOTk4MzU>

The whole book can be found here!

What do you think is going to happen?

Can you back up your predictions with evidence from the book?

