Pevensey & Westham CE Primary School

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Year 3

This booklet contains fun maths activities and games, matched to the Year 3 Learning Objectives.

You can share photos or work completed during these games via Class Dojo. We would love to see what fun you've been having as a family!

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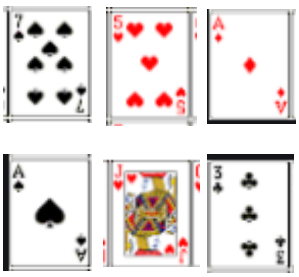
Column addition

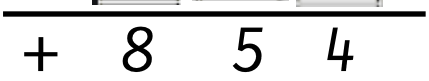
Mathematical Vocabulary:

Hundreds, tens, ones, place value, digits, numbers, add, all together, total, equals.

WALT: Use column addition to add two 3 digit numbers.

You will need: pack of playing cards (remove the 10 cards from the pack), paper, and a pencil.





- Select 6 cards to create two 3 digit numbers. (If you chose the picture cards, use them to represent a zero and an ace is one.)
- Arrange the cards into the column addition format as seen above.
- Add the numbers together.

Challenge: Can you use the inverse operation to check your answer?

Adding two digit numbers.

Mathematical Vocabulary:

All together, sum, add, plus, equals, totals.

WALT: quickly add two digit numbers.

You will need: two dice, timer, pencil and paper (optional).

- Set a 2 minute timer.
- Use the dice to create two 2 digit numbers and add them together.
- How many can you answer within the 2 minutes? If you are finding this difficult, set a longer timer or time how long it takes you to answer 5 sums and try to beat your previous time. Alternatively, add a 2 digit number with a 1 digit number to build confidence.

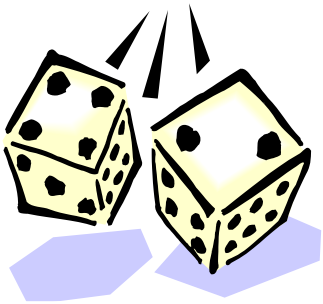
Challenge: Can you add the numbers in your head? Or can you do this activity by adding two 3 digit numbers using the column method.

Multiplication: Dice game

Mathematical Vocabulary:
Multiply, times, groups, lots of, equals, totals.

WALT: multiply 2 numbers.

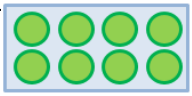
You will need: Two dice, counters.



- Take turns to roll two dice.
- Say the number sentence about the 'product' on the top numbers. e.g. 4 times 2 equals 8.' (You score one point for this.)
- Say the division number sentence to check your answer. (You score another point for this.)

Have 10 turns each and the person with the most points wins.

If your child is unsure of the answer, lay out 2 rows of 4 counters/ objects so they can check their answer.)



Challenge: Can you multiply numbers above 6? Try using 0—12 number cards.

10 more and 10 less book flick

Mathematical Vocabulary:
Add, plus, subtract, take away, totals, equals, more, less.

WALT: identify 10 more and 10 less than a number.

You will need: A chapter book (with numbered pages), 100 square (for support if needed), paper and pencil (Optional for recording.)

- Take it in turns.
- Open the book on any page.
- Read the number on the page **(score one point)** and say the number sentence for finding 10 more (10 more than 101 is 111) **(score one point)** then say the sentence for 10 less (101—10 =91) **(score one point)**
- Have 10 goes each.

The person with the most points is the winner.

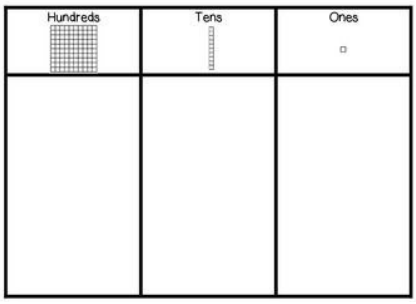
Challenge: Can you identify 100 more or 100 less than the number on the page as well?

Place Value number creator

Mathematical Vocabulary:
Largest, greatest, biggest, smallest, least, lowest, digit, number, order.

WALT: Use digits to make the largest or smallest number.

You will need: a pack of cards Ace—9, paper with Hundreds, Tens and Ones chart on and a pencil.



- Have all of the cards face down in a pile.
- Take turns to turn over a card.
- Write that digit into your place value chart.

The person with the largest number at the end of the game is the winner.

- Play 5 times or more.

Challenge: Can you make the smallest number to win? Can you order the numbers you have both made from smallest to greatest?

Fractions Lego

Mathematical Vocabulary:
Fraction, part, whole, equal, equivalent, numerator, denominator.

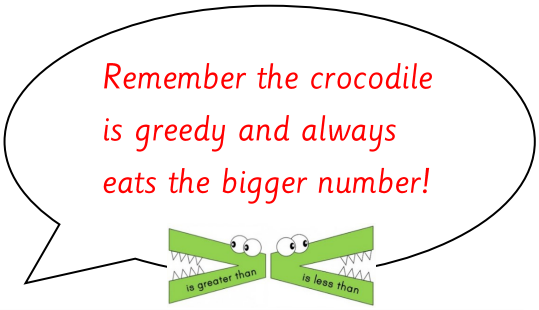
WALT: Compare and order fractions

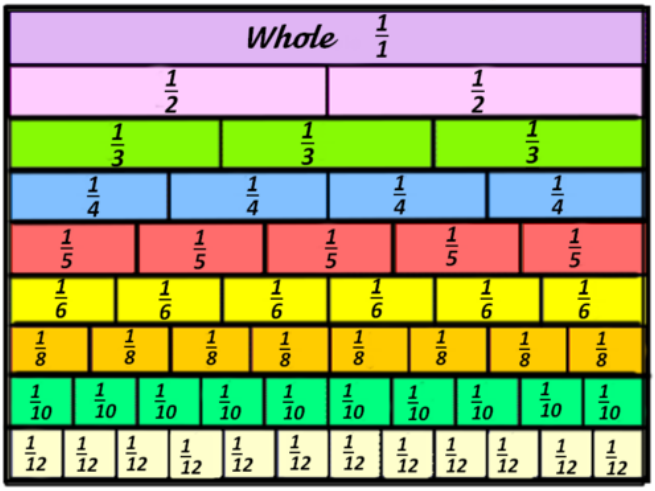
You will need: a selection of Lego.

- Using the fraction wall, use Lego to create your own fraction wall.
- Identify the **equivalent** fractions.
- What do you notice?
- Using the <, = and > symbols, compare the fractions.

This game can be played without using the Lego but will support your child's learning if they create their own fraction wall.

Challenge: Can you use your Lego fractions to find parts of a whole number?





Multiplication fingers

Mathematical Vocabulary:
Multiply, product, total, lots of, times.

WALT: quickly recall multiplication facts.

You will need: Two players with their hands.

- Put you hand behind your back.
- Secretly extend between 1 and 5 fingers.
- Say, 'Ready, Steady, Go!' and both bring your hand out in front of you.
- It's now a race to see who can call out the product of the number of fingers (i.e. multiply the numbers together so 2 fingers x 5 fingers would be 10.)

The winner writes down one letter from the word "FINGERS (in sequence)", and the first person to write down all six letters is the winner of the whole game.

Challenge: Can both players play with both hands so the multiplications are of numbers 1—10.

Problem solver

Mathematical Vocabulary:
Coins, amount, total, add, all together, systematically,.

WALT: solve problems.

You will need: a problem, any resources you think may be valuable. For this activity maybe use a variety of coins.

Lolla bought a balloon at the circus. She gave the clown six coins to pay for it.

What could Lolla have paid for the balloon?

Which of your answers seems a reasonable amount to pay for a balloon?

Challenge: Can you present your findings in a table? How many different combinations of coins can you think of?

Why not try more problems on the following website: https: //nrich.maths.org/12687

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Useful websites:

https://www.lovemaths.me/number-36

https://play.ttrockstars.com/auth/school/student

https://www.topmarks.co.uk/maths-games/7-11-years/ordering-and-sequencing

https://www.bbc.co.uk/bitesize/subjects/z826n39

https://nrich.maths.org/9122

https://urbrainy.com/maths-games/year-3-ages-7-8

https://www.ictgames.com/mobilePage/index.html

http://www.crickweb.co.uk/ks2numeracy.html