Al Wataniya International School

PO Box 22698 Doha, Qatar T: (+974) 4017-4930

info@awisdoha.com www.awisdoha.com



المدرسة الوطنية الدولية

صندوق بريد 22698 الدوحة - قطر هاتف 40174930 info@awisdoha.com www.awisdoha.com

Power Maths Key Vocabulary Year 1 – Block C

Key Vocabulary	Explanation of Terms	Example Question(s)
array	An array is an arrangement of objects, numbers or pictures in columns or rows. The purpose of an array is to help children understand multiplication and division.	Amir and Whitney are making arrays. Whitney Who has made a mistake? Explain why. (Possible answer: Whitney has made a
row	In an array, rows represent the number of groups.	mistake because her array is not in columns. There are an unequal amount of squares in each row.) Teddy and Alex are writing number sentences to describe the array.
column	In an array, columns represent the number in each group or the size of each group.	Teddy 4+4+4+4+4=20 Teddy 5+5+5+5=20 Who do you agree with? Explain why. (Possible answer: They are both right. Teddy has counted the columns. Alex has counted the rows.)

Eva begins to make an array with 40 counters. She has finished her first row and her first column. Complete her array. Write two different number sentences to describe the finished array. (Possible answer: Array showing 10 + 10 + 10 + 10 = 40 or 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 4 = 40) To double of a number, we add the double Louise doubles her donuts. The picture same number to itself. For example, shows what she had after she doubled double of 2 is 2 + 2 = 4. her donuts. twice Whitney Louise started with 4 and ended with 8 donuts. Twice means two times; on two occasions. Eva Louise started with 8 and ended with 16 donuts. Mo Louise started with 2 and ended with 4 donuts. Who do you agree with? Explain why. (Possible answer: Whitney is correct because the image shows what she was left with. She had 8 after she doubled and double 4 is 8.)

Complete the table by doubling each number. 1 2 3 4 5 6 7 8 9 10 What patterns do you notice? (The doubles increase by 2 each time. The doubles are all even. The doubles end in 2,4,6,8 or 0.) share To share is to split into equal parts or groups. Dora has 10 biscuits. She wants to share them equally at her party. How many people could be at the party? (Possible answers: There could be: 10 people, 5 people, 2 people, 1 person (Dora)) There are 10 cakes and 2 boxes. An equal amount needs to be put into each box. Put them into groups of 2 Share them into 2 groups. Who is correct? Explain your answer.

		(Possible answer: Eva shared the cakes equa box.)	
half	A half is one part of something divided into two equal parts.		th attempting to split
halves	$ \frac{1}{2} $ one-half	a rectangle in half. Eva	
	The plural of half is halves.	Jack thinks he can fi	nd three more ways.
		Find Jack's three exa	
		Sort the shapes into	
		Shapes that are split in half	Shapes that are not split in half
		Can you add any m table?	ore shapes to the
quarter	A quarter is one of four equal parts. Written as ¼. This circle has been cut into quarters, and one quarter has been removed.	One cube look like?	quarter, what could
		Two cubes could the whole look	are a quarter, what c like?
	<u>4</u>	Three cubes what could the whol	are a quarter, e look like?
		How many different make?	possibilities can you

		Three children are splitting a square into equal parts.
		Teddy
		Alex
		Mo
		Who has split the square into equal parts? Explain why.
half turn	A half turn results in the object facing the opposite direction (or backwards) to the direction it was originally facing.	Are these statements correct? Is there more than one answer? Explain how you know.
		The shape has made a quarter turn.
whole turn	The object will have turned 180°. A whole turn is 360 degrees (360°).	The share has read a half town
	360°	The shape has made a half turn. The shape has made a three-quarter turn.
	It means turning around until you point in the same direction again.	
quarter turn	If the object is facing upwards then a quarter turn will mean that the object is then facing left or right, depending which direction it turns.	

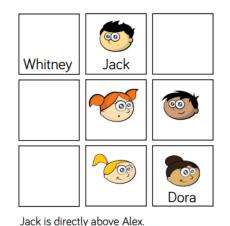
	The object will have turned 90°.	Alex turns her number shape and it finishes facing this direction. What direction could it have started facing? What turn could it have made?
left	If you are holding a compass and facing north, the direction to the west of you is also to your left. Left is the opposite of right. The hand that makes an 'L' shape is your left hand. Right If you are holding a compass and facing	The pink doughnuts are on the left. Mo The pink doughnuts are on the right. Alex
	north, the direction to the east of you is also to your right. Right is the opposite of left.	Who is correct? Explain how you know. (Both children could be correct because they have not stated what the pink doughnuts are left or right in relation to.)
forwards	Forward means in the direction that one is facing or travelling; towards the front.	How many different ways can you describe the position of the 2p coin?
backwards	If you move or look backwards, you move or look in the direction that your back is.	
above	Above is a preposition or an adverb. When we use above as a preposition, it means higher than.	50
below	Below is a preposition or an adverb. We use below most commonly as a preposition meaning lower than. It has a similar meaning to under.	10

These prepositional words can be top confusing for children, but they are important concepts to understand for middle later geometry. ▶ top bottom middle between bottom between Down means moving towards a lower up place or position. down DOWN UP Up means moving towards a higher place or position. place value grid digit value in a number.

(The 2p coin is: Below the 50p. Above the 10p. In between the £1 and 5p. To the left of the 5p. To the right of the £1.)

Use 5 cubes to build a tower.

- Start with a yellow cube.
- Place a blue cube on top of the yellow
- Place a white cube below the yellow cube.
- Place a red cube on the top of the tower.
- Place the green cube in between the yellow and white cube.



Eva is directly below Alex. is to the right of Eva. There is no-one above Amir. What are the missing names? Add people to complete the grid and describe where they are.

A standard place value grid or place value chart is a simple pictorial guide to support pupils' understanding of

Tens	Ones

Show these numbers using a place value chart, Base 10 or straws.

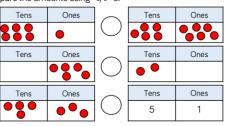
Tens	Ones	73	50	88	79
		91	85	62	93

Use Base 10 to make these numbers on place value charts. Write how many tens and ones are in each number.

78 and 61		90 and 89			64 and 92		
Tens	Ones		Tens	Ones		Tens	Ones

Which number from each pair is the largest? Discuss how you

Compare the amounts using <, > or =



slower	Slower means an object is moving,	Tom and Carol	ine work at th	e same place.
	happening or doing something with	Tom cycles to		
faster	less speed (than another object).	Caroline walks		
	Factor moans an object is moving	Who is faster a		time to get to ses more time to
	Faster means an object is moving, happening or doing something with	get to work?	siower and tak	les more time to
	more speed (than another object).	get to work:		
		Mick, Seb and	Annie all walk	to a football
		match. Mick ta	kes 8 minutes	to walk there.
				Mick. Annie is 5
				o arrives at the
tordou	Yesterday is the day before today.	football match	TIrST? HOW do	you know?
yesterday	resterday is the day before today.			
	If today is Monday, then Sunday is an		the T-Rex is tryin	
	example of yesterday.	the r	nissing days. He	lp her complete
today	Today is the current day or date.	C 1800		
		Yesterday	Today	Tomorrow
			Saturday	
tomorrow	Tomorrow is the day after today.	Wednesday		
				Monday
		Thursday		
			Tuesday	
			ruesuug	
				Sunday
		Friday		
			Monday	
				Wednesday
			Sunday	
		Tuesday		
		racoung		
do.,	A day is approximately the period of			
day	time during which the Earth completes	Tess the T. rex h	nas forgotten the	days of the week!
	one rotation around its axis.			plete the sentences.
		-00	Sunday	
	There are 24 hours in a day.	550		E)
week	A week is a period of 7 days.	290	Tuesday	14
before	Before means at or during a time	Y	Wednesday	1
- L	earlier than (the thing mentioned).	English .	INDIA WINDOWS TOTOTO J	E . 3
after	After means later than and next in time	£		
	or place.	Soulles ment to	Saturday	The second
		13/0	Jacaraay	
month	A month is a unit of time, used			
month	with calendars. It can also be defined as period of 4 weeks or 30 days.	Fill in the missi	ng months.	

	or 366 days. It is the time taken by the	Terrette
	earth to make one revolution around the sun.	January
calendar	A calendar is a chart or series of pages showing the days, weeks and months of a particular year.	March
	September 2018 Sun Mon Tue Wed Thu Fri Sat	July August November
date	A date is a reference to a particular day represented within a calendar system. The calendar date allows the specific day to be identified. The number of days between two dates may be calculated. In most calendar systems, the date consists of three parts: the day of the month, the month, and the year.	This month is February so last month was
o'clock	When the minute hand points at 12 it is showing the full hour. This time is called o'clock.	How do you know which is the minute hand? How do you know which is the hour hand?

	11 12 1 10 2 9 3 8 4 7 6 5	 Where will the minute hand be at half past? Where will the hour hand be at half past? Match the times to the clocks and complete the sentences.
half past	Half past means 30 minutes past an hour. The number on the clock that the hour hand has just gone past tells us which hour we are half an hour past. 11 12 1 2 9 3 8 4 7 6 5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
second	The basic unit of time. There are 60 seconds in 1 minute and 3,600 seconds in an hour. In this clock the hand that moves the fastest shows the seconds. It is called the "Second Hand".	The time is half past The time is half past The time is half past Oh no! Alfie has a dentist's appointment but he tore his card. half past
	One second is approximately the time of one heartbeat when you are resting. You can get a rough count of seconds by saying "One cat-and-dog, two cat-and-dog, three cat-and-dog, " etc., or you may prefer "a-thousand-and one, a-thousand-and two, a-thousand-and three, "	He can remember that it is after 10 o'clock. Which time is his appointment? 11 12 1 2 9 3 1 10 9 3 3 4 7 6 5 4 Fred forgot when to meet his mum for tea.
minute	A minute is a period of time equal to sixty seconds or a sixtieth of an hour.	I know it was half past something. The hour was
hour	An hour is a period of time equal to 60 minutes. There are 24 hours in a day.	Can you find all the times it might be? Can you think of another clue to let him know exactly what time to meet her?
pounds (£) pence (p)	Pounds and pence (pennies) are forms of the British currency. There are 100 pennies (100p) in 1 pound (£1).	Tick the coin that is in the wrong place.

