Year 6 Home Learning Pack – Week 1

Hello parents and students,

Please find below the instructions for daily, at home learning. If you have any concerns, please email your child's classroom teacher. Please read the sheet below with your child as it tells them what they need to do for their school work this week.

Students, you can highlight the activities as you complete them on the set days. We can't wait to see all of your fantastic work. Complete the activities in your exercise book.

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ENGLISH					
Reading and Comprehension	Read for 30 minutes each day and answer the following questions according to whether the text is fiction or non-fiction.	**Fiction** Where was the story set? What problem did the main character have? How was the problem fixed? What message does the text have?			
		Non-fiction Write down 3 facts that were interesting. What is the author's purpose for writing this text? What connections can you make between other texts or your own life? Find the meaning of 3 words you find hard to explain (you can use an online dictionary).			
STRIVE	Each day complete a **vocabulary grid** for each word. You can use an online dictionary and thesaurus to help you with this. (See Additional Information section below).				
	Day 1	Day 2	Day 3	Day 4	Day 5
	sinister	benevolent	infamous	melancholy	petrified
Genre Writing	This week we are focusing on **'Show, don't tell.'** Think of a situation where a character would be feeling the following emotions and write a paragraph that **'shows'** that the character is feeling that particular emotion. Think about how your body reacts when you feel that emotion. Read the short example below for inspiration *(you are expected to write more than this)*. Can you work out the emotion that Tom is feeling? **Example:** Tom didn't want to look under the bed. The hairs on the back of his neck stood up and a chill ran down his spine. Tom thought to himself, if I look under the bed will a pair of eyes look back at me? Tom's heart thumped in his chest and he thought about screaming but his throat was a tight knot.				
	Day 1	Day 2	Day 3	Day 4	Day 5
	embarrassed	excited	panicked	angry	miserable
Daily Writing	In term 4 for English, Year 6 students will be writing a story based on some factual information. To help you prepare, write a story using the picture prompts provided. Make sure you include the focus as outlined on the sheet. Complete the writing activity in your exercise book and tick of each box when the activity has been completed.				
	Day 1	Day 2	Day 3	Day 4	Day 5
	☐	☐	☐	☐	☐

Spelling	Complete the allocated spelling activity for your words each day depending on which spelling stage you are at. Each day you must also write out the words and choose **3 different words** and **write a sentence for each**. (See Additional Information section below).				
	Day 1	**Day 2**	**Day 3**	**Day 4**	**Day 5**
	Choose **5** words and draw a picture to represent each word.	Write a story/paragraph using **5** of your spelling words. Be sure to underline your spelling words in your writing.	Create a **word find** that contains all the spelling words.	Practice your spelling words in "Spelling Bee" style. Spell your words out loud to a parent or sibling.	Write each of your spelling words alternating a different colour for each letter.

MATHEMATICS

Times tables	Learn the 12 multiplication AND division facts (See Additional Information section below).				
	Day 1	**Day 2**	**Day 3**	**Day 4**	**Day 5**
	Write out both 12 multiplication and division facts up to 12.	Start with the multiples of 12 and write the fact beside: 12 = 1 x 12 24 = 2 x 12 36 = 3 x 12	Start with a multiple of 12 and write the multiplication and division facts that belong to each multiple. EG: 48 4 x 12 = 48 12 x 12 = 48 48 ÷ 4 = 12 48 ÷ 12 = 4	Have a family member quiz you on the 12 multiplication and division facts.	Write out both 12 multiplication and division facts up to 12 mixing up the order.

Daily Maths	Complete the focused Maths activity for each day. Complete these in your exercise book. **(See Additional Information for how to write probability as a fraction).**				
	Day 1	**Day 2**	**Day 3**	**Day 4**	**Day 5**

	1. **Rolling two dice.**
	   a. How many possibly outcomes could you get rolling both dice? Write them down.
	   b. What is the chance of rolling an odd number on both dice? (write as a fraction out of the possible outcomes)
	   c. What is the chance of rolling a total that is odd when adding the two dice scores together? (write as a fraction out of the possible fractions)
		1. **Flipping two coins.**
		   a. What are the possible outcomes when flipping two coins?
		   b. What is the chance of getting two tails when flipping two coins? (write as a fraction of the possible outcomes)
		   c. What is the chance of getting a head and a tail when flipping two coins? (write a s a fraction of the possible outcomes)
		2. **Flip the coins 20 times. Record your result after each flip.**
			1. **Rolling a dice and flipping a coin.**
			   a. What are the possible outcomes when rolling a single dice and flipping a coin? Write them out.
			   b. What are the chances of rolling a six on the dice and getting a tail when flipping the coin? (write as a fraction of the possible outcomes)
			   c. What are the chances of getting a head when flipping the coin and an odd number when rolling the dice? (write as a
				1. **Paper Scissors Rock**
				   a. What are the possible outcomes when two players (player 1 and player 2) play paper scissors rock? List the possible outcomes.
				   b. What are the chances of both players doing the same motion? (write as a fraction of the possible outcomes)
				   c. What are the chances of the players doing different motions (write as a fraction of the possible outcomes)
					1. **A Deck of Cards**
					   a. A deck of cards has four suits, what are they?
					   b. There are 13 different cards in a suit. What are they?
					   c. How many cards in a deck? (minus the jokers)
					   d. What is the probability of drawing a **4** from the deck? Write the probability as a fraction.

Column 1:

d. What is the chance of getting a double? (write as a fraction out of the possible outcomes)

e. What is the chance of rolling a total score of 7? (write as a fraction out of the possible outcomes)

2. **Roll the dice 20 times and record your score each time.**

3. **Based on your results, which number or numbers are you most likely to roll?**

4. **Based on your results, which number or numbers are you least likely to roll?**

5. **Draw a graph to show your results?**

Extension

1. Looking at both sets of results; do you think it is easier to roll a score of 6 using a single or using two dice? Explain your answer referring to your results.

2. List as many games as you can that require the use of dice. For each game write how many dice are used.

3. Why do you think many games use dice as part of the game?

Column 2:

3. **Based on your results; are you more likely to flip a head or a tail?**

4. **Draw a graph to show your results.**

5. **Do you think you would get different results if you used a 50c coin or a $2 coin? Explain your answer.**

Extension

1. Sometimes a coin toss is used at the beginning of sporting games. For example, the two team captains will meet with the referee or umpires to do a coin toss. The result then allows the captains to determine which team will bat or bowl first in cricket, or which team will kick off first in rugby league or rugby union, or which way a team will run to begin the game in AFL. Why do you think they have a coin toss?

Column 3:

fraction of the possible outcomes)

2. **Roll the dice and flip the coin 20 times. Record your results each time.**

3. **What is the most likely combination based on your results?**

4. **What is the least likely combination based on your results?**

5. **Rolling two dice and flipping two coins.**

a. What are the possible outcomes when rolling two dice and flipping two coins? Write them out.

b. What are the chances of rolling a double on the dice and getting two tails when flipping the coins? (write as a fraction of the possible outcomes)

c. What are the chances of getting a head on one coin, a tail on the other when flipping the coins and an odd number on one dice and an even number on the other dice when rolling the dice? (write as a fraction of the possible outcomes)

6. **Roll the dice and flip the coins 20 times. Record your results each time.**

Column 4:

2. **Play a game of paper scissors rock with another person. Record who wins and which motion they did each time.**
   - **Scissors cuts Paper**
   - **Paper covers Rock**
   - **Rock crushes Scissors**

Extension

3. In the television show Big Bang Theory, one of the characters introduces a new version of paper scissors rock with the addition of two new motions – lizard and spock

a. What are the possible outcomes when two players (player 1 and player 2) play paper scissors rock lizard spock? List the possible outcomes.

b. What are the chances of both players doing the same motion? (write as a fraction of the possible outcomes)

c. What are the chances of the players doing different motions (write as a fraction of the possible outcomes)

4. Play a game of paper scissors rock lizard spock with another person. Record who wins and which person. Record who wins

Column 5:

e. What is the probability of drawing a **black 4**? Write the probability as a fraction.

f. What is the probability of drawing a **face card**? (a card with a person on it) Write this a fraction.

g. Conduct an **experiment** to see if the **expected probability** of drawing a face card is the same as the **experimental probability** (what happens in an experiment). **Draw a card from the deck 52 times, returning into to the deck and shuffling each time. Record what you drew from the deck each time.**

h. Write the **experimental probability as a fraction:**

The number of times you drew out a face card
──────────────
52

| | | | 7. What is the most likely combination based on your results?
8. What is the least likely combination based on your results? | and which motion they did each time
*Scissors cuts Paper
*Paper covers Rock
*Rock crushes Lizard
*Lizard poisons Spock
*Spock smashes Scissors
*Scissors decapitates Lizard
*Lizard eats Paper
*Paper disproves Spock
*Spock vaporizes Rock
*(and as it always has) Rock crushes Scissors
Which version of the game was easier to win? Explain why you think this is the case. | |

Mathlet ics& Xtra	Spend some time on Mathletics and Xtra Maths (20 mins each). You can spend more time on these programs if you have finished all your other work.									
	Day 1		**Day 2**		**Day 3**		**Day 4**		**Day 5**	
	Mathletics	Xtra Math	Mathletics	Xtra Math	Mathletics	Xtra Math	Mathletics	Xtra Math	Mathletics	Xtra Math

Mentals	Complete 1 column of mentals each for **4** days. Tick of each box as each column is completed.			
	Day 1	**Day 2**	**Day 3**	**Day 4**
	☐	☐	☐	☐

ADDITIONAL INFORMATION

Vocabulary Grid Instructions

Definition
What do you think the word means? Look the word up in your dictionary. Use the definition in the dictionary and your understanding to write a 'friendly definition' that is easy to understand.

Similar Words and Opposite Words
Use a thesaurus (can be online) to complete this section. Write words that are similar in meaning (synonyms). Write words that are opposite in meaning (antonyms).

Write the word in this box

Super Sentence
Write a detailed sentence for the word that shows the meaning of the word. Underline the vocab word in the sentence.
Eg. The building was so gigantic, we couldn't see the top of it!

Draw It
Draw a picture to represent the meaning of the word.

Week 1 Spelling Words (please check with your teacher if you are unsure of which list of words you need to learn)		
For students who are WITHIN WORD spellers	**For students who are SYLLABLE AND AFFIXES spellers**	**For students who are DERIVATIONAL spellers.**
able song often accept sometimes could about should copy might	migrant dependant persistent assistant ignorant excellent attendant confident apparent consonant president accident participant patient different occupant resident independent servant respondent	delineate accelerate variant antipathy contaminate occupant acquiescence observant defiant coercion confident servant conciliatory perspirant vacant stagnant tolerant celebrant exfoliant provident

x 12

0 x 12 = 0
1 x 12 = 12
2 x 12 = 24
3 x 12 = 36
4 x 12 = 48
5 x 12 = 60
6 x 12 = 72
7 x 12 = 84
8 x 12 = 96
9 x 12 = 108
10 x 12 = 120
11 x 12 = 132
12 x 12 = 144

÷ 12

0 ÷ 12 = 0
12 ÷ 12 = 1
24 ÷ 12 = 2
36 ÷ 12 = 3
48 ÷ 12 = 4
60 ÷ 12 = 5
72 ÷ 12 = 6
84 ÷ 12 = 7
96 ÷ 12 = 8
108 ÷ 12 = 9
120 ÷ 12 = 10
132 ÷ 12 = 11
144 ÷ 12 = 12

Probability Using Fractions

$$\text{Probability} = \frac{\text{number of times desired outcome can occur}}{\text{total number of possible outcomes}}$$

YEAR 6 DAILY WRITING – HOME LEARNING PACK

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

DAILY WRITING TASKS – Every day do Daily Writing for 15 minutes. Use a stimulus below and do at least half a page (or more) of solid writing about the stimulus ensuring that you include the following: a title, Sizzling Start, paragraphs, correct punctuation (capital letters, full stops, questions marks, exclamation marks etc). After 15 minutes, spend 5 minutes editing your work and use either an online thesaurus or paper thesaurus (if you have one) to find some better words to use in your writing.

The focus for this week is to include a **Simile** in your Daily Writing. A Simile uses the words 'like' or 'as' to compare one object or idea with another to suggest they are alike **Eg: _Neil ran <u>as</u> quick <u>as</u> lightening, The boat was leaking <u>like</u> a seive._**

Mentals - Year 6 Home Learning Pack

Day 1

1. $21 + 82 + 58 =$ _____

2. $23 - 18 =$ ____

3. $1 \times 12 =$ ____

4. $35 \div 5 =$ ____

5. $30 \times 2 =$ ____

6. Round 82168.90 to the nearest whole number. _____

7. Round 50541 to the nearest ten. _____

8. Complete this counting pattern:
100, 105, 110, 115, _____, _____, _____

9. Complete this counting pattern:
76, 79, 82, 85, _____, _____, _____

10. What is the sum of 39 and 61? ____

11. How much is 3kg at $3 per kilogram? ____

12. What is the price after taking 10% off $63? _____

13. What is 1/6 of 12? _____

14. What is 1/5 of 35? _____

15. $0.92 \times 100 =$ _____

16. Write these decimals in descending order: 0.66, 0.40, 0.88, 0.86 _____

17. How many minutes from 3:30 am to 11:30 pm? _____

18. If a square has a perimeter of 336cm, what is the length of a side? _____

19. How many faces does a square-based pyramid have? _____

20. Imagine these stars are in a bag. What is the probability of pulling out a white star? ____

Day 2

1. $61 + 60 =$ ____

2. $39 - 11 =$ ____

3. $36 \times 2 =$ ____

4. $5 \times 4 =$ ____

5. $48 \div 8 =$ ____

6. Round 7214 to the nearest hundred. _____

7. Write the numeral for forty-seven thousand and four: _____

8. Complete this counting pattern:
79, 83, 87, 91, _____, _____, _____

9. Complete this counting pattern:
71, 73, 75, 77, _____, _____, _____

10. What is the sum of 40 and 35? ____

11. Divide 27 by 3. _____

12. What is the price after taking 50% off $21? _____

13. What is 1/10 of 590? _____

14. What is 1/7 of 77? _____

15. Write these decimals in descending order: 0.67, 0.34, 0.33, 0.24 _____

16. Write these decimals in ascending order: 0.85, 0.64, 0.22, 0.98 _____

17. What is 10:58 pm in 24-hour time? _____

18. If a rectangle has a perimeter of 56cm, and its length is 19cm. What is its width? _____

19. What type of angle is 67°? _____

20. Which star has the lowest chance of being selected? Black or white? _____

Day 3

1. $56 - 54 =$ ____

2. $74 + 70 + 32 =$ _____

3. $61 \times 2 =$ ____

4. $121 \div 11 =$ ____

5. $11 \times 11 =$ ____

6. Round 52355 to the nearest ten. _____

7. Round 80234 to the nearest hundred. _____

8. Complete this counting pattern:
34, 42, 50, 58, _____, _____, _____

9. Complete this counting pattern:
54, 57, 60, 63, _____, _____, _____

10. What is the sum of 22, 34 and 34? ____

11. If 3 metres costs $21, how much would 24 metres cost?

12. What is the price after taking 25% off $54? _____

13. What is 1/3 of 3? _____

14. What is 1/9 of 72? _____

15. $0.44 \times 100 =$ _____

16. $0.33 \times 10 =$ ____

17. How many minutes from 11 am to 10 pm? _____

18. The length of a square's sides are 6cm. What is its area? _____

19. How many faces does a triangle-based pyramid have? _____

20. Which star has the highest chance of being selected? Black or white? _____

Day 4

1. $45 + 61 =$ ____

2. $88 + 59 + 96 =$ _____

3. $83 \times 2 =$ ____

4. $70 \div 7 =$ _____

5. $4 \times 11 =$ ____

6. Round 5260.30 to the nearest whole number. _____

7. Write the smallest number you can using: 7, 7, 2, 3, 2, 4. _____

8. Complete this counting pattern:
45, 49, 53, 57, _____, _____, _____

9. Complete this counting pattern:
84, 95, 106, 117, _____, _____, _____

10. If there were 107 fans at a softball game, 59 were wearing pink and the rest were wearing silver, how many were wearing silver? ____

11. What is the product of 11 and 4? ____

12. What is the price after taking 25% off $44? _____

13. What is 1/5 of 25? _____

14. What is 1/7 of 42? _____

15. Write these decimals in descending order: 0.77, 0.99, 0.84, 0.76 _____

16. Write these decimals in ascending order: 0.76, 0.12, 0.82, 0.55 _____

17. What is the 24-hour time 2:46 in 12-hour time? _____

18. If a rectangle has a perimeter of 154cm, and its length is 72cm. What is its width? _____

19. How many faces does a square-based pyramid have? _____

20. Imagine these triangles are in a bag. What is the probability of pulling out a white triangle?