GRADE 5 REMOTE LEARNING

TERM 4 - Week 4

25th-29th October

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
LITERACY	Word Study Page 1 Robot Reading and editing Projects	Word Study Page 2 Putting Inventions in order of how important Invention Convention	The Wright Brothers All About Mars Projects		
MOOZ	Zoom – 9-9:30 Then Parent Teacher Interviews	<u>Zoom 10:00 – 11:00</u> Go Through Maths	Zoom 10:00 – 11:00 Quick Check in		
	BREAK - Running on t	the spot 2 min, downball against a	wall (away from where peop	ole are working), Mrs Simmons	challenge 15 MINUTES MINIMUM
MATHS	Angles Page 1 Study Ladder	Angles Page 2 Study Ladder	Angles Page 3 Matheroo		
	BREA	K - Bike ride up and down the	street, trampoline, basket	ball, Kick a football 15 MINI	JTES MINIMUM
	Quiet reading 30 min Invention	Quiet reading 30 min Code.org	Quiet Reading 30 min Code.org YQVNRT		
	Extension Activities: These are activities children <u>can</u> do when they have finished their set activities for the day. Study Ladder, Get Epic				

LCWC 2	LCWC 1	
		Artificial intelligence
		reasoning
		capability
		knowledge
		routine
		deduction
		simulation
		<u>assistant</u>
		prediction
		analyse
		personalise
		sentient
	Bonus	I
		cognitive
		heuristic

COLOURFUL WORDS	Write about a digital assistant (Google home, Alexa, Siri etc)
1	using as many list words as you can
2	
3	-
4	
5	
6	
7	
8	
9	
10	
11	
12	·
13	
14	
	-
Meanings	
1. assistant	
2. prediction	
3. personalise	

READ THROUGH ALL OF THIS AND CORRECT THE MISTAKES.

INTRODUCTION - spelling

A robot is a mashine that does task with out the help of a person. Many people think of robot as mashines that look and act like people. Most robots, though, do not look like people. Robots do only what a person has build them to do.





HOW ROBOTS WORK - missing words

Most robots are computer-controlled devices many parts. An industrial robot, example, is armlike machine that can turn at several joints. It has a handlike part to grasp hold things. Motors move the parts.

Some robots be "taught" to do a job. For example, a person might guide industrial robot through the movements needed to do something. Sensors on the robot send signals the movements to the computer. The computer stores the pattern of movements. Later the computer can retrieve the pattern and the robot what to do.



USES – punctuation and capitals for the start of sentences

most industrial robots are used in factories some robots load move and unload materials others are used on assembly lines to help build things such as cars and appliances



robots are especially useful because they can do things

that could be dangerous for people for example they can be sent deep underwater or into space robots can also handle dangerous materials such as radioactive waste or harmful chemicals they can even dispose of bombs or do spy work for the military

HISTORY - Capitals letters

writings from ancient greece and china tell of toys called automatons, which were like robots. they were set in motion by steam, air, water, or falling weights. in the late 1700s and early 1800s complex automatons could play music or write with a pen on paper. during this time people also built machines to help do certain kinds of work. modern robots only came about after computers were invented. with computers, people could program robots to do tasks on their own.



ROBOTS IN SCIENCE FICTION - Everything

Robots often apear in science fiction, or stories set in the future or in another world. Robot in science-fiction books television shows, and movies can often think, listen, talk, and walk easily on two legs. Sience-fiction robots that look exactly like humans are known as androids allthough real robots are becoming more complex, they still not like these imagened robots.

Put these inventions in order of what you think has changed the world the most to the least. explain your decision.

Television	Car	Internet	Fridge
	Gun	Radio	
Electricity	Aircraft	Mobile phone	Video games

	invention	Reason it is the most world changing.
1		
		why is it less world changing that the one above it?
2		
3		
Ч		
5		
6		
7		
8		
9		
10		

6	
7	
8	
9	
10	
11	
12	

The Wright Brothers

Who Were the Wright Brothers?

Wilbur and Orville Wright were famous inventors and **aviators** who grew up in Ohio, USA. Wilbur was quiet and serious while Orville was curious and confident. On 17th December 1903, the brothers built and flew the first aeroplane powered by an engine; they are famous for this invention.

What Was Their Early Life Like?

Their father was a **bishop**: he encouraged them to read lots of books and think carefully about the world. Instead of going to university, Orville spent several summers learning the printing trade and even persuaded Wilbur to open a printing shop with him. The brothers developed a reputation in the local area for the quality **printing presses** that they designed, built and sold. In 1892, the Wright brothers opened their own bicycle sales and repair shop. The bicycle shop was successful; they used their profits to research flying machines and to sketch original designs.

Were the Wright Brothers the First People to Fly?

Before the Wright Brothers, many others had explored the possibility of flight. A Greek myth describes a tale of a boy, Icarus, who flew too close to the sun. Leonardo Da Vinci, a famous artist, designed different machines in the 1700s but his inventions were never built. The Wright brothers studied the work of more recent and successful inventors, including Otto Lilienthal, who designed and flew the first **glider**. He studied the way that birds flew and built gliders with similar wings that could carry him in flight. Otto was a major source of inspiration to the Wright brothers; they used his work on gliders to design an aeroplane powered by an engine.

What Was the First Aeroplane Like?

Wilbur and Orville experimented with many different designs to make an aeroplane fly for a sustained period. They realised that the design of the wings was crucial to get the plane off the ground. They built wings with different lengths, shapes and tip designs and created a wind tunnel to test their experiments. By 1903, they had designed and built an aeroplane with wings, propellers and

Page 1 of 2

an engine; it also had a rudder so that the pilot could steer. On 17th December 1903, the aeroplane flew for 12 seconds: its first flight

was witnessed by five **spectators**.





The Wright Brothers

What Happened after the First Flight?

After their first success, the brothers continued to develop and build aeroplanes. By 1905, they had built an aeroplane that could maintain flight for 39 minutes; it could even perform manoeuvres such as flying in circles. Wilbur and Orville became more successful while other people struggled to keep up with their designs. The brothers created aeroplanes for the US army that could fly for at least one hour with a pilot and a passenger. Years later, they opened a flight school in Ohio where pilots were trained. Modern designs of aeroplane wings are remarkably similar to their early sketches.

Glossary

aviator A person who flies an aircraft.

bishop A senior member of the church.

glider A light aircraft that flies without an engine.

printing press A machine for printing text or pictures.

spectators People who watch a show, game or event.





Questions

 Tick two words that are used to describe Orville Wright. 					
O curious					
O quiet					
Serious					
O confident					
Draw four lines and complete the sentence.					
In 1892, the	the brothers carried				
brothers opened	on building aeroplanes.				
After the first flight,	the wings				
	was important.				
They realised that	their own bicycle				
the design of	repair shop.				
¥	that could fly for 39 minutes.				
built an deropiane	39 minutes.				
What invention are the Wright brothers famous for?					
Find and copy one phrase which shows that Otto Lilient	hal was important to the brothers.				
Why do you think the Wright brothers' first flight was w	ratched by spectators?				
wing at you mark the wright brothers just jugitt was w	raterieu by spectators:				
	 curious quiet serious confident Draw four lines and complete the sentence. In 1892, the brothers opened After the first flight, They realised that				





The Wright Brothers

6.	Explain how you think that the Wright brothers' father influenced them.				
7.	Predict how flying machines might change in the future.				
8.	Why do you think that the Wright brothers succeeded where other people failed?				



All About Mars

Within our Solar Sy	ıstem, Mars is the fo	ourth planet from	the Sun, after		
It is often referred t	o as the		because surface of the planet makes it appear red.		
When the	of Mar	rs brings it close to	o Earth, Mars can be	clearly seen	
shining in the night	<u> </u>	·			
In some ways, Mars	s is similar to plane	t Earth. A day on	Mars is almost the s	same	
	as a d	ay on Earth. Mars	s has	, clouds and	
weather, just as we	do on this planet. C)ne major differen	ce is	, as the	
Mars average is aro	und -80 degrees Ce	lsius.			
Some scientists beli	•	•	een life on Mars. Thi	s is most likely to	
Since 1960, many _		have been sent to	Mars to collect		
			ve been able to learr		
In 2017,	was d	iscovered there. Th	nis is very important	news because, as	
far as we know, all	forms of life need w	ater to	This	makes the	
	of finding		on Mars much mo	re likely.	
		Word Bank			
temperature	Earth	ice	information	survive	
life	Red Planet	spacecraft	sky	length	
seasons	conditions	iron oxide	orbit	microbes	
possibility					

Extension



Explore this resource using amazing augmented reality! Simply scan this code with any device running iOS 12 or later. For further information, please visit our FAQ page at www.twinkl.co.uk/help/twinkl-apps.





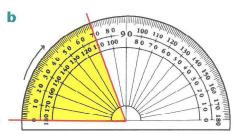
Angles

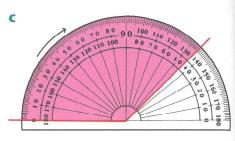
	Remember! There are find the street of the s	t:	Of classifying Obtuse: greater 90° but than 18	than less	Straight: = 180°	Reflex: greater than 180° but less than 360°	
8	Use the arm provided	to sketc	h angles to	match e	each label.		
	acute		ob	otuse		right	
d		e			f		
	obtuse		stra	— aight		reflex	
A B C D E							
9 Identify which shape is being described.							
a I have four right angles.b I have one obtuse angle, one acute angle and two right angles.							
c I have three acute angles.							
d I have three right angles and two obtuse angles.							
e I have six obtuse angles.							
10 Find two acute angles and two obtuse angles in your classroom and list them below.							
	Acute			Obtuse			

Measuring angles with 180° protractors

8 Name each angle and then write its size in degrees. Remember that protractors can be read from both ends.

a

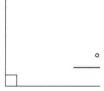


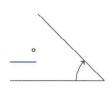


9 Use a protractor to measure and name each angle.

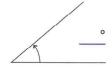
a

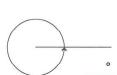




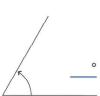


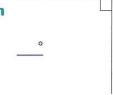


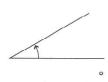


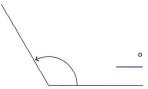


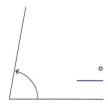
g











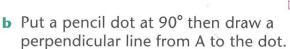


- 10 Use the starting lines below to draw the angles.
- a An acute angle of 30°

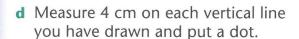


c An obtuse angle of 110°

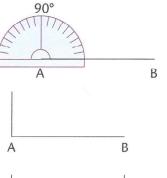
- 12 Follow the instructions to draw a rectangle.
- a Place a protractor exactly on the line AB, with the centre point exactly on the end of the line where A is.





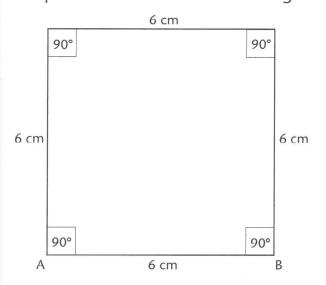


e Connect the dots by drawing perpendicular lines.





Now construct a congruent copy of the square below by following the same procedure as above. All the angles and sides are given on the shape.



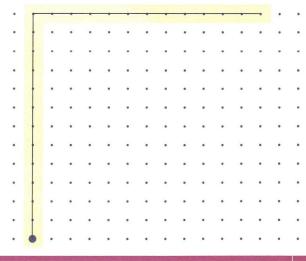


14 Play the robot game on the 5-mm grid paper.

Rules: Forward FD Right RT Left L1

Start at the dot then follow the instructions. **Note: a** and **b** have been done for you and turns are always made from the direction you are coming from.

- a FD 60 mm
- e LT 90° FD 20 mm
- **b** RT 90° FD 60 mm
- f LT 90° FD 30 mm
- c RT 90° FD 20 mm
- q RT 90° FD 20 mm
- d RT 90° FD 30 mm
- h RT 90° FD 60 mm

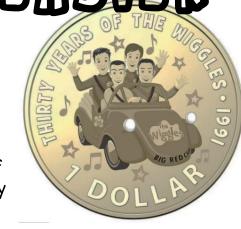




MATHAROO Worksheet MP – 32 21

Student Name: Grade: Date:

1. The Royal Australian Mint has created a "WIGGLES" \$2 Coin Collection", to celebrate 30 years as entertainers together. There are 6 coins in each set. If Jayson has already collected a third of a set, how many MORE coins does he need to complete his set?





2. It is now 6 years since pop singer Adele released a new album. How many MONTHS are there in 6 years?

3. Adele's new album is titled "30". Write that number down in Roman numerals.

4. Four keen, brave people recently boarded a space vehicle and headed into space for an exciting 11-minute journey. For how many SECONDS were they actually "astronauts" of sorts, counting the entire time of their trip?

simplest terms?



5. One pizza company has released a "Vegemite Pizza". Out of 100 people, how many do YOU think would LIKE that Vegemite pizza? What FRACTION of 100 is that, in

6. This dressed-up dog, along with his lemonade, now has 10½ million followers on social media. Write that number down in figures.



7. Mila, Jess and Zoe shared an apple. Mila had ½ of the apple, and Jess had $\frac{1}{4}$. How much of the apple did Zoe get?

8. One popular daily newspaper costs \$2.20 per day, Mondays to Fridays, and \$3.50 on Saturdays and Sundays. Find the total cost of buying that newspaper every day for a full week.





9. The Lost Dogs Home is facing a HUGE increase in demand, due mainly to lockdown. In August 2021, 416 animals were re-homed, compared to 92 animals in August, 2019. Find the DIFFERENCE between those two numbers.

10. Open-ended Question: If it takes a nail salon the same amount of time, in minutes, to paint a single fingernail or toenail, how long MIGHT it take them to paint all of Jeanette's fingernails AND toenails?

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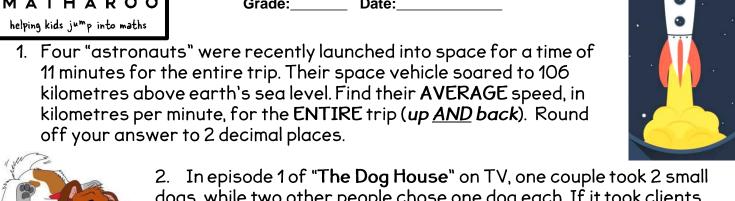




MATHAROO Worksheet UP – 32 40 6 6

Student Name:

Grade: Date:





- dogs, while two other people chose one dog each. If it took clients 1½ hours, start to finish, to choose each of these dogs, how long did it take altogether for the decisions to be made?
- 3. A new facemask designed for children is rectangular in shape. It is 14.2 centimetres long x 9.2 centimetres wide. Find the perimeter and area of one such mask.

FEATURES: Soft ear loops



- 4. Australian mangoes are selling at the moment at 2 for \$5. At that price, what would be the total cost of buying 2½ dozen mangoes to be shared at a picnic?
- 5. In the supermarket carpark, there were 84 supermarket trolleys awaiting collection. The collector had loaded 3/4 of those trolleys onto his trailer by 9:30 am in the morning. How many more of the trolleys did he still have to collect?



- 6. At 4:30 pm, the minute hand on an analogue clock was pointing directly at the "6". After some minutes, the minute hand had moved clockwise through an angle of 270°. At what number on the clockface was that minute hand now pointing?
- 7. Aussie long-distance swimmer Chloe McCardel has just won a world record, having swum the English Channel for her 44th time. Write the number 44 in Roman numerals.



- 8. One car insurance company is offering a 15% discount during October. Luke's dad usually pays \$870 per year to insure his car. What will he pay if he takes up this 15% offer?
- 9. OPEN-ENDED QUESTION: A square has a perimeter of 80.4 cm. A few of these squares are put side by side to make a rectangle. What MAY be the perimeter and area of this newly-formed rectangle? (Think carefully about this!)



Australian Primary School levels