#### Week 23 Test

- 1. 27m + 30m =
- 2. 8 + 60 + 400 =
- 3. Regroup 4 tens and 25 units
  - = tens units
- 4. 4 × 5 =
- Draw a mirror image reflection of the arrow.
- 6. 498cm = m cm
- 7.  $\frac{1}{4}$  of 36 =
- 8. 12 ÷ 3 =
- 9. 1 hour 35 minutes = minutes
- 10. What fraction of the balls are coloured red?
  - 0000000
- 11. 16/4 = \_\_\_\_

- 12. htu 600 -379
- How many faces has a triangular prism?



14. How much?



- 15. 4 × 5 → × 10
- 16. 598, 596, 594, \_\_\_\_\_.
- 17. 4kg 550g - 3kg 260g
- 18. (18 × 4) → (10 × 4) + ( × 4)
- Arrange these numbers in order of size, starting with the largest: 739, 973, 937, 379.

20. 9 x = 81

#### **Problems**

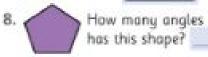
- 21. There are 200 pages in a book. Jack read 45 pages on Monday and 87 on Tuesday. How many pages has he left to read?
- 22. The Smiths had 85l of oil in their oil tank. They received a delivery of 250l. How many litres were in the tank then?
- 23. There are 24 pencils in a box. How many pencils in 8 boxes?
- 24. How much heavier is a turkey that weighs 4kg 350g than a hom that weighs 2kg 260g?
- 25. Dillon had 45 football cards. He gave 7 to each of his 6 friends. How many had he left?

#### Week 24 Test

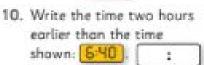
- 1. 45m + 35m =
- 2. 67 + = 90
- 3.5×6=
- 4. 3m 46cm = cm
- 5. 3m + 600m + 40m =
- 6. Divide the cubes of the first of the cubes of the cube of the cube of the cubes of the cubes of the cubes of the cube of the cube of the cube of the cube of the cubes of the cube of the cubes of the cube of the cube of the cube of the cubes of the cube of the cu

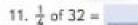


7. Are these lines parallel or perpendicular?









- 12. 26 × 6
- 13. 1-1, 1-3, 1-5, \_\_\_\_\_, \_\_\_\_,
- 14. 30 + 5 =
- Which is greater,
   250g × 2 or <sup>3</sup>/<sub>4</sub>kg?
- 16. 6l 650ml - 3l 500ml

17. How much? \_\_\_\_\_ 8 5 6 8 5



- 18. (5 × 8) 15 =
- 19. (19 x 4) (10 x 4) + (9 x )
- 20.  $\frac{5}{10} = \frac{1}{2}$ . True or false?

#### Problems

- 21. There are 24 markers in a packet.

  How many markers are in 6 packets?
- 22. Pádraig has 32 marbles.

  Paul has ½ of that number.

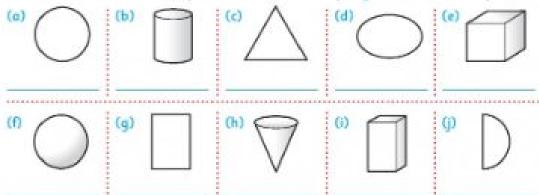
  How many marbles have they between them?
- 23. If you ride 4km in  $\frac{1}{2}$  an hour, how long would it take you to ride 16km?
- 24. Rónan spent €5-55 on food and €2-65 on a drink. How much change did he get out of €10-00?
- 25. How many bags of 10 apples can be made from 33 green apples and 47 red apples?

## Chapter 21: 3-D shapes

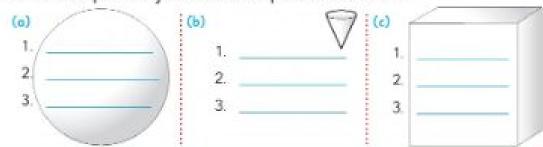
2-D shapes are FLAT.

3-D shapes are SOLID.

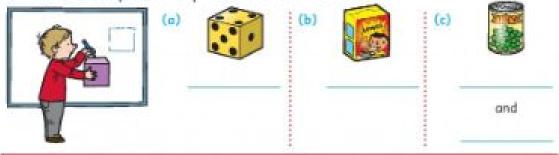
1. Write the name of each shape. Colour the 2-D shapes green and 3-D shapes red.



Give 3 examples of objects that are shaped like these solids.



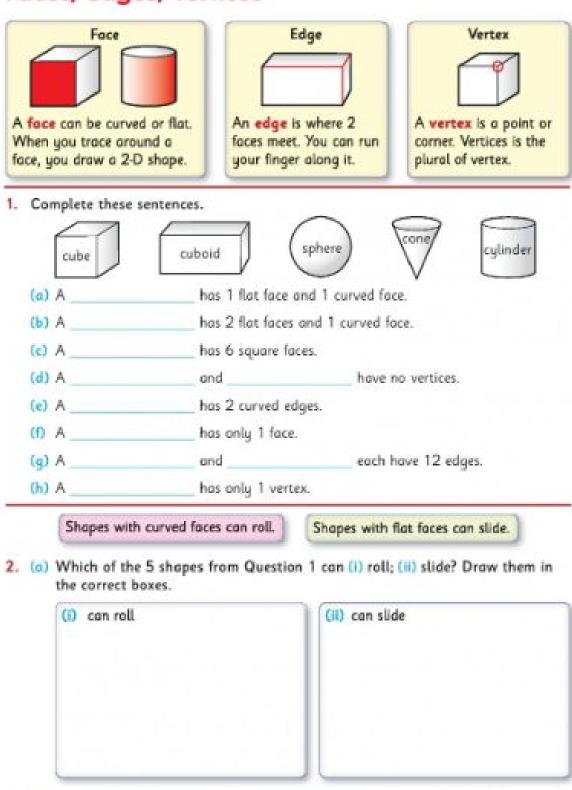
3. When you trace around a face of a 3-D shape, you will draw a 2-D shape. What 2-D shapes make up the faces of these solids?



4. Colour the odd one out. Give a reason for your choice.



### Faces, edges, vertices



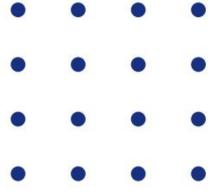
and

can both roll and slide.

(b) The

## Lots of squares

How many **squares** can you find that have **dots** from this array as their corners?



**LEUEL 2** 

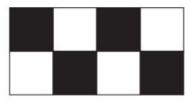
http://nzmaths.co.nz/problem-solving

### The kitchen floor

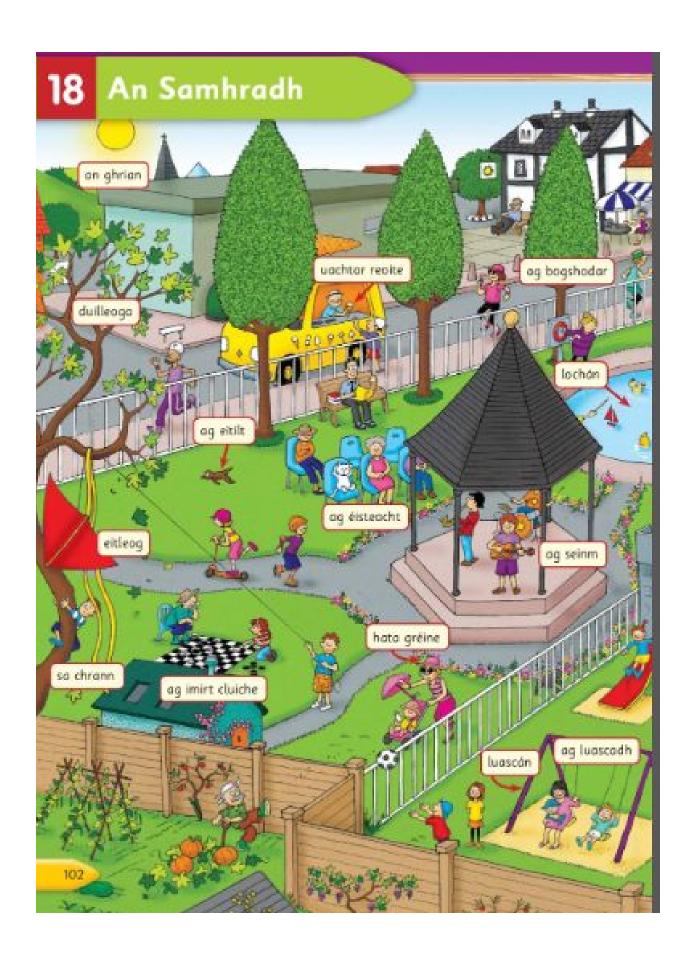
Grace's kitchen floor is square and is fitted by 64 square tiles in a 8 x 8 array. Grace choses **black and white tiles**. She can have the tiles laid so that they look like a chessboard but she is hoping for something a bit unusual.

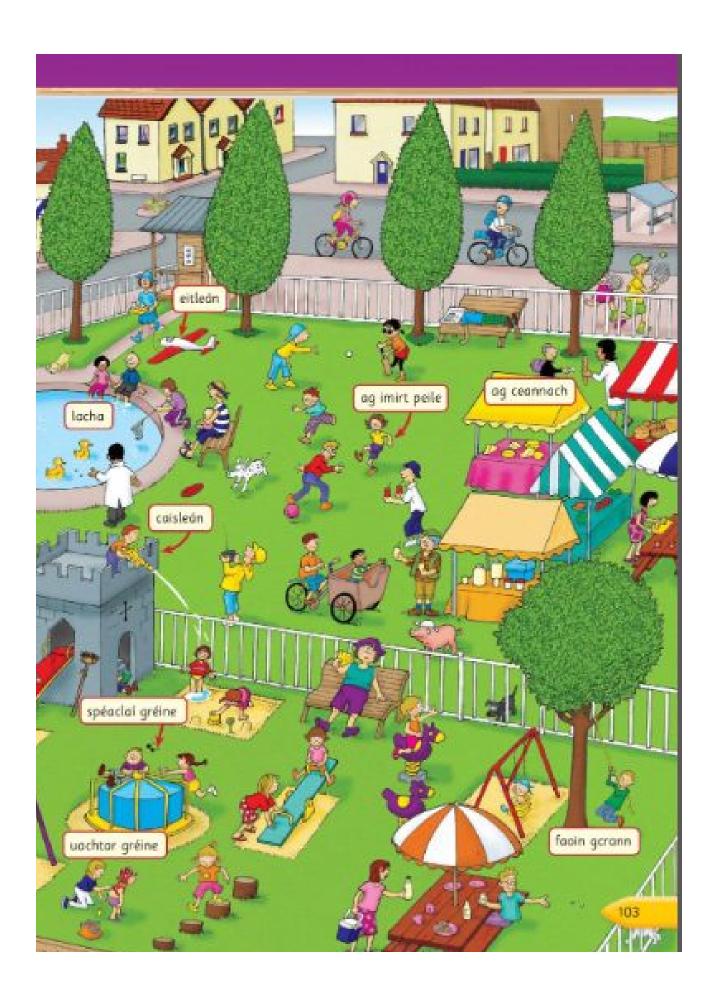
The tile man sketches something that has **reflective** and **rotational** symmetry.

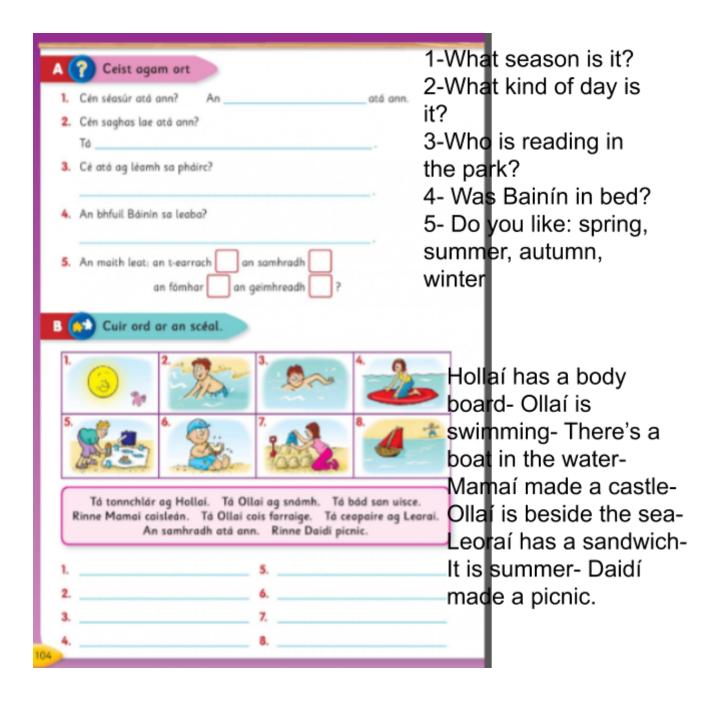
What does he suggest?



**LEVEL 3** 







## Teanga ó bhéal - Éist agus foghlaim

Tá/Níl an lá go hálainn. Tá/Níl an ghrian ag taitneamh. Tá/Níl sé an-te.







Tá/Nil scamaill sa spéir.

Tá/Níl sé ag cur báistí.







To/Nil	sé	gaofar.
		500

۰	Cén saghas lae atá ann inniu?	Tá/Níl	
	Tá/Níl	. Tá/Níl	
	Cén saghas lae a bhí ann inné?	Bhi/Ni raibh	

## Teanga ó bhéal — Comhrá

- \* Ag caint le chéile AN LA:
  - Cén lá atá ann inniu?
- Cén là a bhí ann inné?
- \* Ag caint le chéile AN AIMSIR:
  - An maith leat lá... te, fuar, fliuch, gaofar, grianmhar, scamallach? Is maith liom lá... Ní maith liom lá... Is breá liom lá... Is fearr liom lá...

Bhi/Ni raibh \_\_\_\_\_\_. Bhi/Ni raibh \_\_\_\_

- An fearr leat lá... nó lá...? Is maith liom lá... ach is fearr liom lá... Is maith liom lá... ach is breá liom lá... Is maith liom Id... mar...
- Cén saghas lae atá ann inniu?
- Cad atá sa spéir?
- An bhfuil... ag titim?
- Cén saghas lae a bhí ann inné?
- Cad a bhí sa spéir?
- An raibh... ag titim?

# Toto — the Ninja Cat

Catface (a rat) and his two friends, Silver and Toto (both cats) are going down the sewers after a deadly King Cobra. Toto is no ordinary cat. She will need to use all of her ninja skills if they are to survive.

#### Pre-reading activities: Comprehension strategy - Summarising

- 1 (a) Do you know any stories about cats or rats?
  - (b) Tell your story to the class or to your partner.
  - (c) What are the most important events in your story?

#### Think, Pair, Share: Comprehension strategy - Connecting

- 2 (a) Describe what you think Ratborough will be like.
  - (b) Would you like to visit Ratborough?

#### During reading: Comprehension strategy -Determining importance

- 3 (a) Are there some parts of the story that are more important than others?
  - (b) Which part of the story did you find most important so far? Why is it the most important?



'Get your scrap burger here! Get them while they're hot!'

The yell of the rat market trader was the first thing the brave animal gang heard when they emerged in the central square of Ratborough – the capital of Rat London – which, for you and me, is about fifteen metres under Camden High Street.

They'd travelled through the dark, smelly sewers for what seemed like ages, trying to avoid bumping into any rats along the way. Luckily, as there were so many smaller tunnels leading off from the main one, which they could hide in when necessary, they had gone undetected. But as they got closer to the town, it became busier and busier, so Catface had pulled his hat right down and hidden the cats under his coat-tails.



After a while, the sewer tunnels got bigger and bigger, and they started to pass small rat houses made from mud and rubbish.



The houses got larger and grander, until finally the tunnel opened on to the huge town square. In the middle was a vast park, surrounded by buildings made from plastic, glass bottles, tin cans and toilet rolls. A sewer river ran through it all, and just nearby the food market was in full swing.

'Catface, this place is incredible!' said Silver.

'Is this where you're from?' asked Toto.

'I was born and bred here – I grew up in the palace over there,' Catface said, pointing to a beautiful building made from glass cola bottles.

There were rats everywhere. Luckily, they were all too busy going about their business to notice the large rat, under a hat, who looked like a cat, and the two tails that stuck out from underneath his tweed jacket.

The smell from the food stalls was overwhelming – fried, dirty, slightly off meat. Silver loved it. 'Now this is my kind of place! What's in a scrap burger anyway?'

'You do NOT want to know, my friend,' replied Catface. 'Let's just say, the clue is in the name.' 'So, what's the plan?' asked Toto, as they found a quieter corner to huddle in. 'We can't just start screaming. 'There's a King Cobra on the loose – run for the hills!' Are there even hills here?'

'No, and no,' said Catface, glancing down. 'Oh, Silver, not again!'

Silver had slipped out from underneath Catface's coat-tails and was hiding in a bush next to the scrap burger stand. Just as his paw was about to nab one of the burgers, the stallholder turned and caught him in the act. At first the stallholder looked furious, then confused, then scared...







"Thief! Cat! Cat-Thief!" he screamed.

Within seconds, from the four corners of the square ran ten uniformed rats armed with pikes (which looked suspiciously like toothpicks) who surrounded the cats.

'Sorry, sis - thought I'd get away with it...' said Silver sheepishly, backing away.





'Alas, no,' he said. 'This is the King's Guard, the elite warriors of my father's army. I'm his son, and even I'm not sure I can talk us out of this one.'

'Right then,' said Toto. 'I've got this.'

She took a step back and closed her eyes. She could sense the guards were all big, strong and armed, but

at least she knew exactly where they were. Drawing a breath, she emptied her mind and knew what to do.

As the first guard moved to attack, she dodged and leapt up in the air, avoiding the stabbing toothpick that was heading her way. She hung in the air for what seemed like an age, then swept her back foot around in a circle, swiping the surrounding rats in their faces with her spiky claws. By the time she landed half a second later, all ten rat guards were lying on the ground, groaning.



'Classic ninja move!' said Silver, grinning. 'One of my favourites.'
Catface was staring open-mouthed, but...

...reinforcements were coming from all sides, and before they knew it, a hundred or so armed rats had surrounded them.

'She can take them all, just watch her!' said Silver, excitedly.

'Enough!' a booming voice echoed around the whole square.



All eyes turned towards the palace as the owner of the voice started to walk down the stairs towards them.



He was enormous, dressed in fine robes, with a ridiculous, oldfashioned hat. He also looked quite a lot like a cat.

'Let me guess,' said Toto. 'Your dad?'

'Yes, he's the king all right,' said Catface.

'Whatever you do, do NOT say that we look like each other.'

'But you look exactly like each other,' protested Silver.

'NOT A WORD,' said Catface. 'Let me see

if I can handle this. Wish me luck."

Catface took off his hat and walked towards his dad. The guards gave way, suddenly realising who he was.

'YOU!' the King sounded furious.
'Who gave you permission to return here?
You have been banished to live with the surface dwellers you love so much.
I know for a fact that you are still seen in the company of cats – CATS!'

The whole town square took a massive gasp as one.



'And now I see you return with two cat assassins to overthrow me and claim the crown for yourself!'

'You know, that's not a bad idea,' whispered Silver to Toto.

'Father!' said Catface. 'I've done no such thing. I'm here to help you. It is true, I am a surface dweller – which is a **weird** thing to call them, by the way – but there are many creatures up there who wish us no **harm**.'

Silver whistled and looked away.





"These are my friends," Catface continued, gesturing to Silver and Toto, 'and we come with a warning. You have to listen to us. A King Cobra, the King Cobra – the terrifying monster known only as Brian – has escaped from the zoo and could be heading this way!'

From Toto - The Ninja Cat and the Great Snake Escape by Dermot O'Leary.

#### Post-reading activities: Comprehension strategy - Determining importance

- 1 (a) What is the most important part of the story in your opinion?
  - (b) Retell the most important event in the story giving it a beginning, middle and end.
- 2 Find five important words in the text. Compare your five words with the rest of the class. Call them VIWS (Very Important WordS). Explain why you chose these words.



# Toto — the Ninja Cat



- Who is the author of this story?
- 2. What is the first thing the brave animal gang heard when they emerged in the central square of Ratborough?
- What did Silver try to nab (steal) from one of the stalls?
- 4. Who surrounded the cats when the stallholder called out 'thief'?
- About how many reinforcement guards arrived?
- 6. Why did the king think Catface had returned with the two cats?

#### Deeper Thinking

- Do you think the title Toto the Ninja Cat is a suitable title for this story? Explain.
- 2. Why did it get busier as the animal gang got closer to the town?
- Describe the town square.
- 4. Why do you think Toto closed her eyes when surrounded by the King's Guard?
- 5. Why do you think Catface had been banished to live with the surface dwellers?



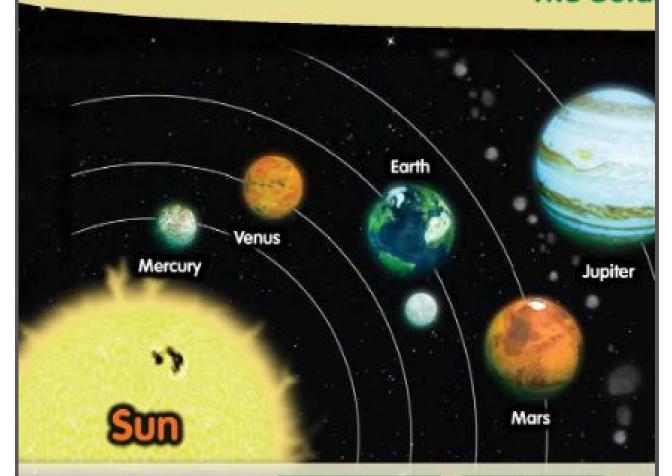
#### What do you think is going to happen when Brian arrives?

#### Wocabulary Work: Tired Words

We overuse some of our words. We call these words **tired** words, e.g. 'Thief! Cat! Cat-Thief!' he screamed. The author uses the word screamed instead of said to make the sentence more interesting.

- Write three more words from the text used instead of: (a) said (b) walk (c) big.
- Use your thesaurus to write three more words for: (a) said (b) walk (c) big.
- Replace the underlined tired word with a more interesting word.
  - (a) At first, the stallholder was angry.
  - (b) 'Catface, this place is great!' said Silver.
  - (c) 'But you look exactly like each other,' said Silver.
  - (d) 'Catface, this place is nice!' said Silver.
  - (e) The bad monster, known only as Brian, could be heading this way.
  - (f) The smell from the food stalls was bad.

## The Sola



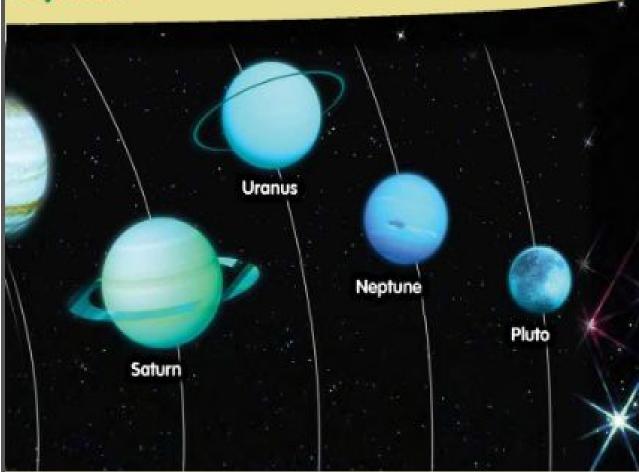
Mercury is the smallest planel in our solar system and it is dosest to the sun. It is an airless, rody planet. It is very hot on the side facing the sun and treesing cold on the other side. Its surface is covered in croters. Our planet, Farth, has exactly the right conditions for life as we know it to survive. It is just close enough to the sun to get light and heat. There is oxygen in the atmosphere and a salid surface to stand on. It is the only planet in our solar system with liquid water.

Jupitor is the largest planet in the solar system. It is a giant gas ball with no solid surface. It is extremely cold, with no suitable atmosphere to breathe. Aupiter has a giant storm spot, where humicanes rage and never soom to and.

Venus is the brightest planet in the sky at night. It is a little smaller than Earth and like Earth, it has a solid surface, continents and mountains. It is the hoftest planet and because of toxic gases in its atmosphere, no life could survive there. It is sometimes called the Morning or Evening Star, as we can see it from Earth. A day on Venus lasts for 262 Earth years!

Mars is smaller than Earth. It is known as the 'Red Planet' because of its dusty, red surface. Mars may once have had rivers, lakes and oceans. The atmosphere is thin with traces of oxygen, Mars has two moons.

## r System



Uranus is several times larger than Earth. It is a giant gas ball that spins on its side. It is also known as an ice giant, as it is so cold. It has 27 moons and 11 invisible rings. Scientists think that there could be a huge ocean and diamonds on the surface of Uranus!

Schum is the second largest planet in our solar system. It is also a giant gas ball. It has 62 moons and it takes 29+ years to go around the sun. Saturn has rings of ice, dust and rack. There are huge humicane storms on Saturn. Saturn is so light that it would float on water! Pluto is called a dwarf planet, or planetoid. If is smaller than Earth's moon. If takes 249 years to travel around the sun. If is a very cold, dark place. Pluto was named after the Roman god of the Underworld by an 11-year-old English girl! (The Roman god Pluto is also known as Hades.)

Nephune is the third largest planet in our solar system. It gets its name from the Roman god of the sea, because the gases in its atmosphere give it a beautiful blue colour. It is also a gas and ice giant, it has a great dark spot raused by a giant storm. It is a very windy planet.