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The king had twin sons. They were tall, strong and brave. They both wanted to become king after their father died. A contest was held each day to test their skills and both sons thought that their father would favour the winner. But, no matter which of them won the contests, they continued to argue. King Strike-the-knee became fed up with this, and so decided to teach them a lesson.

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The two boys raced off to begin the difficult task. They did not speak to each other as they ran; only one of them could win, after all.

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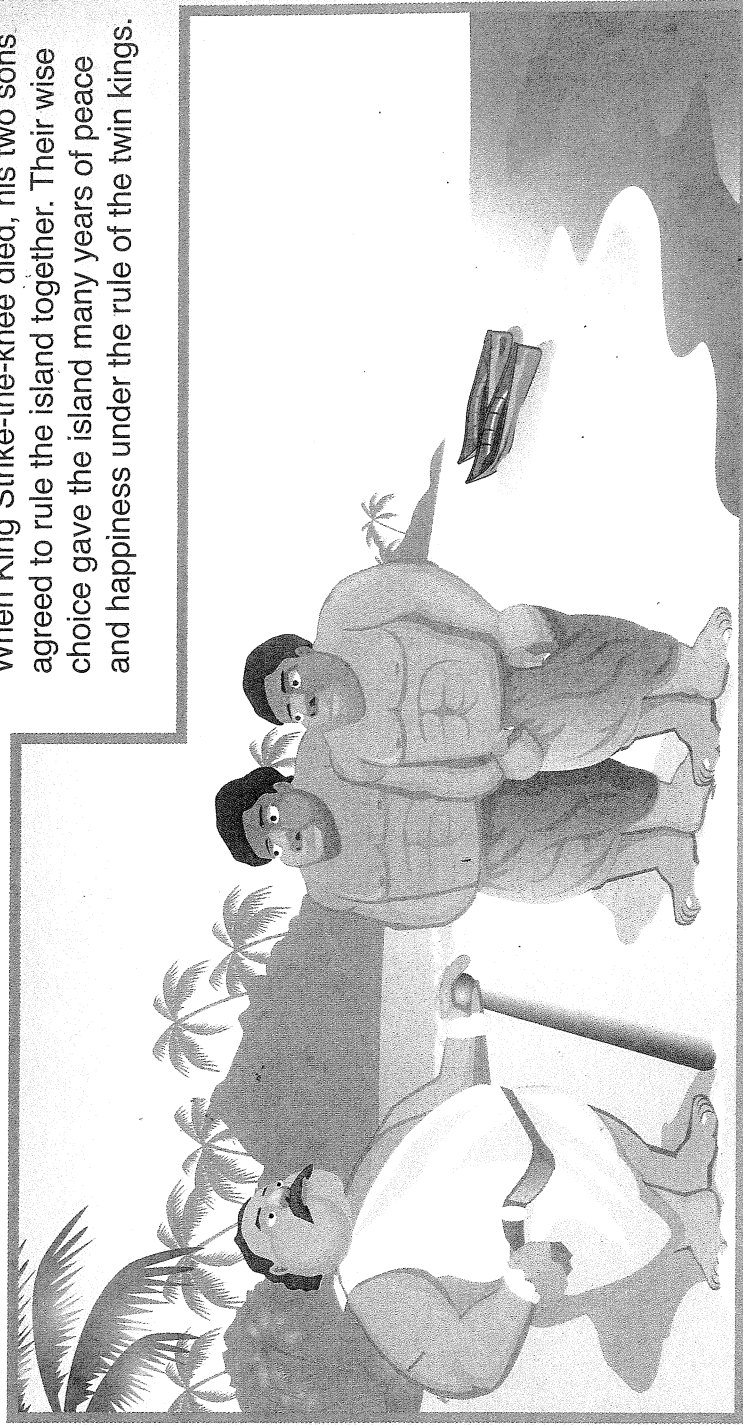
"See, the canoes are built and paddled as you asked. Now we are wise enough to be king!"

"Foolish boys," the king cried to his sons. "It has taken you twice as long to build these canoes because you refused to work together."

The king led them to the coral doorway.

"A job that is shared is half the trouble," he said. "Neither one of you is wise enough to be king on your own. Let these stones remind you that together you can be a powerful force."

When King Strike-the-knee died, his two sons agreed to rule the island together. Their wise choice gave the island many years of peace and happiness under the rule of the twin kings.



## Questions

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## Vocabulary

Match the words from the text to the clues.

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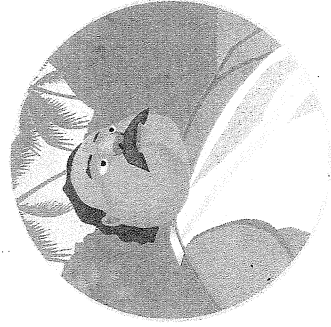
## Grammar

### Adverbs

Adverbs add meaning to verbs. They mostly end with "ly".

Change the following words to adverbs by adding 'ly', e.g. like - likely.

- 12 strong
- 13 brave
- 14 large
- 15 complete



## Sequencing

Look back through the card to find what happened first. Choose **a** or **b**.

- 16 a The king's sons raced to build a canoe and paddle it back.  
b The king's sons had competitions every day.
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- 18 a The island was ruled by Tui'itatu.  
b The island was ruled by the twin kings.

## Think About This

- 19 The moral of this story is spoken by
  - a the king.
  - b the brothers.
  - c the villagers.
- 20 Is the king's name important in this story?
  - a Yes, because the story is about him being angry.
  - b No, because the story is about him showing wisdom.
  - c Yes, because he needs to teach his sons a lesson.

## Challenge Option

Explain what is meant by the saying "Two heads are better than one".



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## What are Adaptations?

Read the passage about adaptations, then answer the questions below.

Adaptation is the process which enables organisms to adjust to their environment in order to ensure their survival. This process is sometimes referred to as the evolution of species.

Adaptations often occur because of a genetic mutation. A genetic mutation is an alteration an organism is born with. For example, a bird may be born with a slightly longer beak; a shark may be born with slightly stronger fins or a frog may be born with slightly longer legs. If these mutations are successful, and help the animal to thrive in their environment, the animal may pass the same characteristic on to their offspring. As time passes, the mutation may eventually be found in all members of that species. However, this process is very slow.

There are three types of adaptations; structural, behavioural and physiological. Most animals and plants will have a combination of these three types of adaptations.

Structural adaptations are the physical features of an organism that enable them to survive in their environment. For example, a penguin has thick blubber to protect itself from the freezing Antarctic temperatures. Camels can close their nostrils, to prevent desert sand from entering their noses. Rainforest trees have wide, waxy leaves so the rain runs off them easily.

Behavioural adaptations are the actions of an organism that enable them to survive in their environment. For example, bears hibernate in winter to escape the cold temperatures and preserve energy. Lizards seek out the morning sun to warm up their cold-blooded bodies more quickly. Fish swim together in groups (or schools) to protect themselves from predators.

Physiological adaptations are internal or cellular features of an organism that enable them to survive in their environment. For example, snakes produce poisonous venom to ward off predators and to capture prey. Some plants contain toxins to prevent them from being eaten by herbivorous animals. The Australian koala has a slow metabolism which keeps their food in their digestive system for longer, giving them as much energy as possible from their limited diet.



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Questions

1) In your own words, describe the adaptation process.

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2) What is a genetic mutation? Provide one example.

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3) What might happen if a genetic mutation proves to be successful?

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4) What are the three types of adaptations? Provide an example of each.

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5) Decide whether the following statements are true or false.

- |   |              |
|---|--------------|
| a) Evolution is a very speedy process.                                  | True / False |
| b) An animal may pass a genetic mutation on to its offspring.           | True / False |
| c) Plants do not have structural adaptations.                           | True / False |
| d) Animals can change their behaviour to better suit their environment. | True / False |
| e) Physiological adaptations can be difficult to see from the outside.  | True / False |

## PANDORA'S PARTY PALACE

For a science experiment, Professor Paleo needed 180 balloons and 360 paper cups.

Calculate for the experiment:

- the total packs of balloons
- the total packs of paper cups
- the total cost for the balloons and cups.



## PANDORA'S PARTY PALACE

To help celebrate New Year's Eve, Lilly bought some decorations from Pandora's Party Palace. Her budget for decorations was \$100.

What combinations of decoration could Lucy buy for New Year's Eve?

List some possibilities, and then calculate the total cost Lilly spent on decorations.



## PANDORA'S PARTY PALACE

On the weekend, Jenny had a party for her 12th birthday. Calculate the total cost if Jenny bought:

- 3 packs of balloons
- 4 packs of streamers
- 5 packs of bunting
- 4 boxes of yoghurt ice blocks
- 10 boxes of chicken nuggets
- 5 packs of popcorn
- 10 bottles of lemonade.



## PANDORA'S PARTY PALACE

You have been given a budget of \$200 to organise your own party, using items from Pandora's Party Palace.

After deciding on how many guests you will invite, make a list of the items you will buy and their total costs.

Calculate the total cost of the party to check that you have come in under budget.



# Unit 23



## ir ur or er bird nurse world fern

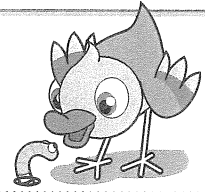
### List Words

burnt  
burst  
refer  
prefer  
person  
perfectly  
reverse  
research  
earthen  
worse  
further  
surface  
certain  
curtain  
concern  
purchase  
purpose  
dessert  
suburban  
earliest  
observant  
conferred  
germinate  
circumnavigate  
circumstance

- 1 Colour the graphemes that represent ir ur or er in the List Words.
- 2 Go to the List Words for Unit 23. Count the sounds and identify all the graphemes in each List Word.
- 3 Write any other letters that can represent ir ur or er on the Grapheme Chart. Write one word example for each.
- 4 Colour words where you hear ir ur or er in each row.  
 ir tired circumstance dirtiest repair  
 ur suburban curtain honour courage  
 or worthwhile horizon worse force  
 er dessert desert concern neither  
 ear appear heart earthen research

### Grapheme Chart

grapheme	word



- 5 Write List Words with ir ur or er in these positions to fit on the lines.

first

second

fourth

fifth

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- 6 Write words from the brackets to finish these sentences.

★ **Burst** can be a verb meaning *to break open*. **Bust** can be a noun meaning *a model or sculpture of the head and shoulders of a person*. **Farther** refers to *distance only*. **Further** can refer to *more time, information and so on*.

The balloon \_\_\_\_\_ when it hit the sharp corner of the clay \_\_\_\_\_ of a famous artist.

(bust, burst)

The delicious \_\_\_\_\_ was made from the fruit of the cactus plant which grows well in the \_\_\_\_\_.

(desert, dessert)

I needed \_\_\_\_\_ information as I didn't know how much \_\_\_\_\_ it was to the next village.

(farther, further)


Birds usually wake \_\_\_\_\_ than any other creature.

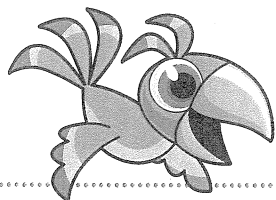
(earlier, earliest)

- 7 Unjumble the List Words in the brackets. Fill in the columns with the correct verbs.

Today...	Yesterday...	They have...	They are still...
bubbles (tsrub)	bubbles		
fires (urnb)	fires		
cars (veerrse)	cars		
subs (acefrsu)	subs		

**8 Complete the table.**

★ When adding **ed** and **ing** to words ending with **er**, we usually double the letter **r** when the grapheme **er** is representing  **ir ur or er**.



Base word	Add ed	Add ing
refer		
prefer		
confer		
remember		
answer		
consider		

**9 Read the purple message text and study the table beside it. Complete the sentences below with words from the table.**

★ When comparing some adjectives, rather than adding **er** and **est** as in *earlier* and *earliest*, the words change completely. We do not say *gooder*, *goodest* or *badder*, *baddest*.

Adjectives (describing 1)	Comparatives (comparing 2)	Superlatives (comparing 3 or more)
good	better	best
bad	worse	worst
little	less	least
many	more	most
much	more	most

This painting is **good**. That one is **better**. The next one is the \_\_\_\_\_ of all in the competition.  
 Today's weather is **bad**. Tomorrow will be **worse** and the next day will be \_\_\_\_\_ of all.  
 I only ate a **little** of my lunch. You ate even **less** and Jan ate the \_\_\_\_\_ of the three of us.  
**Many** people live in Queensland. **More** live in Victoria but New South Wales has the \_\_\_\_\_.  
 I didn't save **much** money. My sister saved \_\_\_\_\_. My brother saved the \_\_\_\_\_.

**10 Build word families with the following base words.**

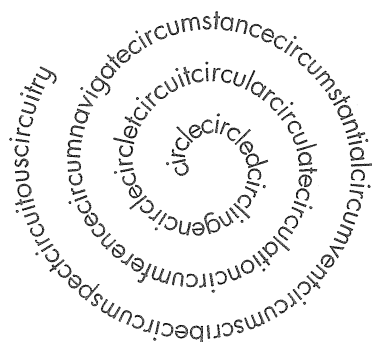
 Go to Helpful Hints for help.

purpose (ly, ful, less)	perfect (im, ly, ion)	observe (er, ant, ation)	certain (un, ly, ty)
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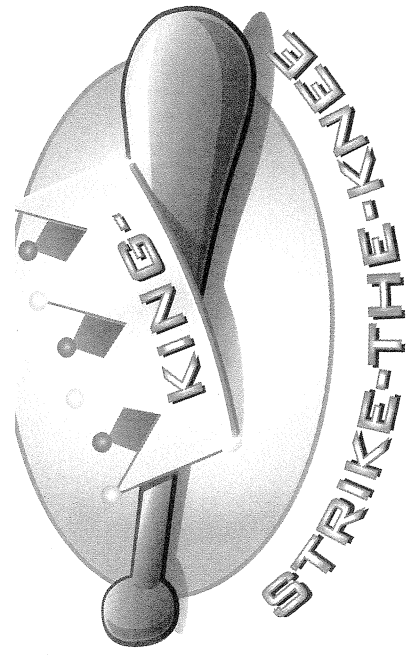
### Challenge

**Find** words formed from the Latin roots **circum** meaning *round* and **circ** meaning *a ring* in the circular coil.

**Discuss** with a partner how the meanings relate to each word.



_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____



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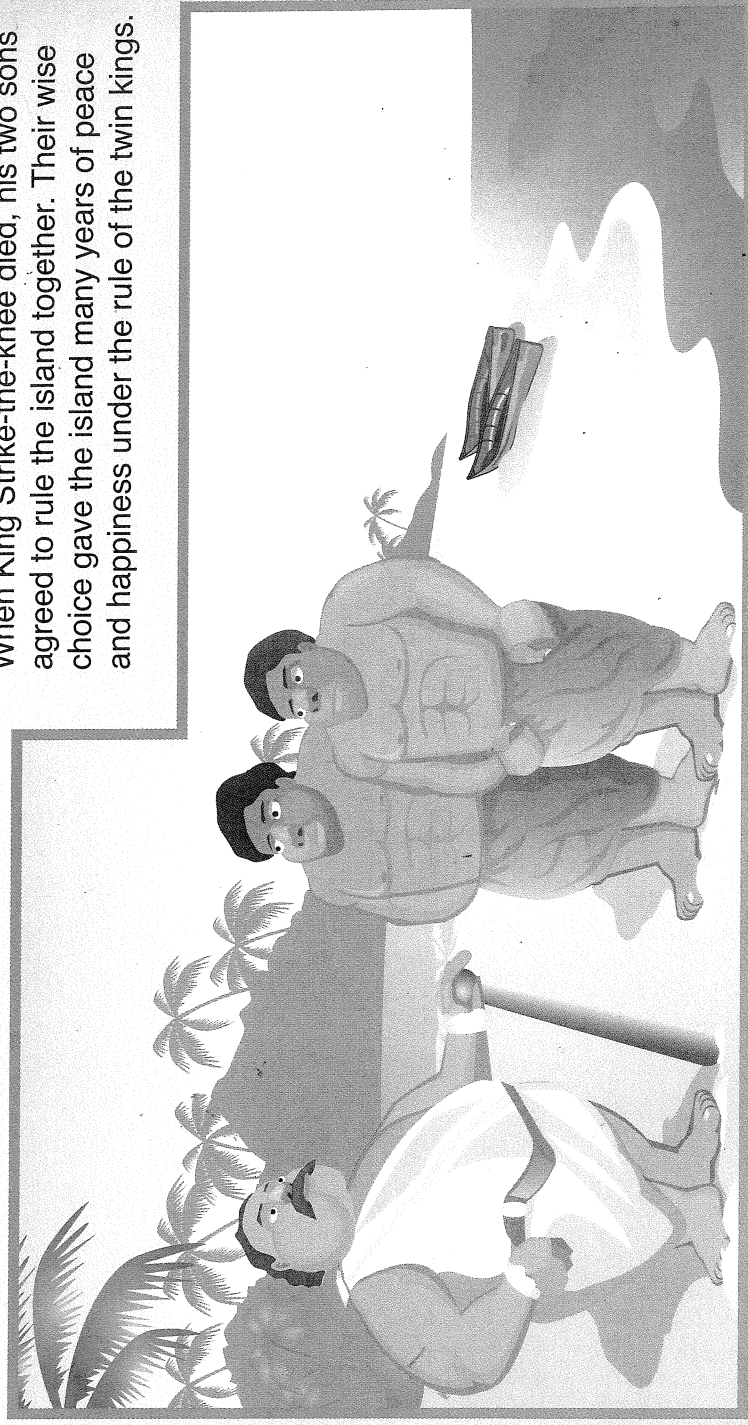
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