UNIT 4

Get Ready

Words

A Unscramble the words.

sedimentary rock	ash	discover
dinosaur	paleontologist	examine
ravine	pastime	~~skull~~
excavate	layer	

1 s k u l l
k l u l s

2 _ _ _ _ _ _ _ _
m e a x e n i

3 _ _ _ _ _ _ _ _
v o r i d s e c

4 _ _ _ _ _ _
e a n r v i

5 _ _ _ _ _ _ _ _
a i u d r o n s

6 _ _ _ _ _
a e r l y

7 _ _ _ _ _ _ _
t a e p s i m

8 _ _ _
s a h

9 _ _ _ _ _ _ _ _
a t c a e x e v

10 _ _ _ _ _ _ _ _ _ _ _ _ _
t i l a p o g o e t s o n l

11 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
y e t i e d s a m r n c r k o

B Read and number.

1 layer **2** ravine **3** ash **4** skull **5** examine **6** paleontologist

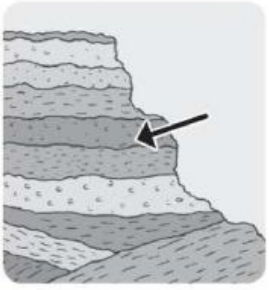
a ☐ 

b ☐ 

c ☐ 

d ☐ 

e ☐ 

f ☐ 

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LIVEWORKSHEETS

C Circle the best answers for each sentence.

1 The **ravine** / **paleontologist** discovered the dinosaur **pastime** / **skull**.

2 The paleontologists dug through the **discover** / **layers of sedimentary rock** / **dinosaur**.

3 Amy's favorite **pastime** / **layer** is to read about **excavate** / **dinosaurs**.

4 The students walked down into the **examine** / **ravine** to see the layer of **ash** / **discover**.

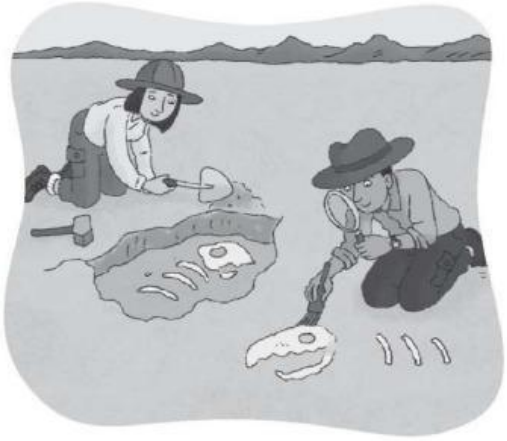
5 Frank went to the lab to **examine** / **discover** his findings from the **pastime** / **dinosaur** dig.

6 They **discovered** / **layered** a bone in the ruins that had to be **sedimentary rock** / **excavated**.

D Complete the sentences with the words in the box.

dinosaur	discover	excavate	examine	paleontologists

First, _____ (1) take shovels and _____ (2) an area that might have _____ (3) bones. If they are fortunate, they will _____ (4) some bones. They will then _____ (5) these bones to learn more about them. Finding new fossils is a lot of work!



E Circle *True* or *False*.

1 A skull is a bone that protects the head. **True** **False**

2 Ravines may show layers of sedimentary rock. **True** **False**

3 Paleontologists only examine dinosaurs. **True** **False**

4 When something burns, it turns into ash. **True** **False**

5 Playing soccer is a pastime. **True** **False**

6 When you examine something, you take a quick look. **True** **False**

7 A ravine is a high place. **True** **False**

8 To discover something means to find something new. **True** **False**

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LIVEWORKSHEETS

Read

A Read. Why is the Karoo a famous place?

B Read again. As you read, make predictions.

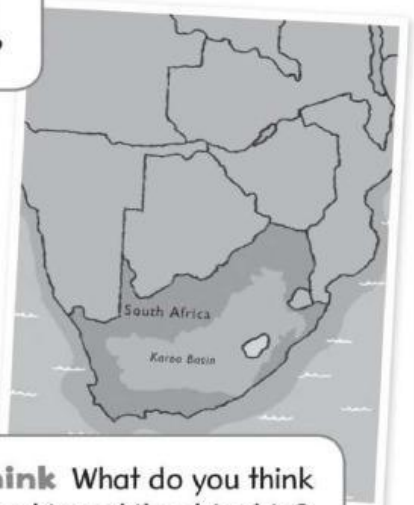
Karen of the Karoo



Karen lived with her parents in the Karoo Basin of South Africa. The Karoo was famous for plant and animal fossils. Karen's father was a **paleontologist**, and Karen enjoyed looking at all the **dinosaur** bones in his office. She hoped to **discover** her own dinosaur bone someday.

Think Do you think that Karen will find a dinosaur bone? Why? / Why not?

Every summer, Karen's father invited paleontologists from around the world to the Karoo. As they hiked through the dry land, he would show them fossil samples within the **layers** of **sedimentary rock** and **ash**.



This summer, Karen asked her father if she could go along on the hike. He agreed, but he asked her to stay close by. As they drove to the trail, Karen's heart beat quickly with excitement. There were so many places to explore!

The hike was interesting, but Karen was too curious to stay on the trail. Without asking, she ran down into a nearby **ravine** and looked among the rocks. Then, she heard her father's voice calling to her. She ran up the side of the ravine. Suddenly, she spotted something white and shiny. "Dad!" she shouted excitedly.

Think What do you think the shiny white object is?

Karen's father stood at the top of the ravine with the other people. They looked worried until Karen pointed to the shiny object. All the paleontologists **examined** it. They nodded to each other in surprise. It was the **skull** of a dinosaur, a dinosaur nobody knew about! The paleontologists took pictures and shook Karen's hand. Her father smiled. "Karen," he said. "You are now the youngest paleontologist in the Karoo!"

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LIVEWORKSHEETS

Understand

Comprehension

A Write a prediction based on each question.

Question	My Prediction
1 Karen found the skull of a new dinosaur in the ravine. What will paleontologists do there now?	Paleontologists will _____
2 Karen's father is very proud of his daughter and calls her a paleontologist. What will Karen do when her father has another group hike in the Karoo?	_____
3 Karen likes dinosaur bones, and she was very excited to find the skull. What will she become when she is an adult?	_____

B Answer the questions.

1 Why do paleontologists from around the world like to visit the Karoo?

_____

2 Why did the paleontologists take pictures of the skull and shake Karen's hand?

_____

C **Words in Context** Read and write.

favorite dream determine tripped



1 Karen's father will try to _____ the age of the skull.

2 Jerome _____ on the rock, but fortunately he didn't fall down.

3 Abe's _____ pastime is looking at dinosaur bones.

4 Karen's _____ is to find a dinosaur skull.

D **About You** Would you like to be a paleontologist? Why? / Why not?

_____

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LIVEWORKSHEETS

Grammar in Use



A Study the grammar.

Learn Grammar Verbs Followed by Gerunds

dislike (excavating)	appreciate (learning)	recommend (resting)
imagine (discovering)	consider (going)	stop (studying)

Karen **enjoyed looking** at all the dinosaur bones in her father's office.

I **enjoyed talking** / **didn't enjoy talking** to the paleontologists after the hike.

He **didn't begin writing** / **began writing** his report on dinosaurs after dinner.

Did you **finish excavating** the area in the ravine? Yes, I did. / No, I didn't.

What does she **like doing** after her homework? She **likes watching** TV.

B Underline the verbs. Then circle the gerunds.

1 Jacob didn't start building his dinosaur model yet.
2 Karen likes looking at all the bones in her father's office.
3 Did Miguel finish examining the skull this morning?
4 Karen's father enjoys taking her on hikes in the Karoo.
5 Where did you practice digging before you went to the site?

C Read. Then correct the sentences.



watching
1 I enjoy ~~watch~~ films about ancient history.
2 The people in the Karoo like show visitors their area.
3 Lars stopped do research for his dinosaur report.
4 I recommend take a break before we label these items.
5 Marin considered study paleontology at university.
6 Natasha disliked get her hands dirty when she looked for bones.

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LIVEWORKSHEETS

D Complete the sentences with the verbs in parentheses.

My friend Ben enjoys reading (1) (read) about dinosaurs a lot. He told me that he imagines _____ (2) (find) a dinosaur bone someday. In fact, on Saturday he looked for dinosaur bones on his grandfather's farm all day. He only stopped _____ (3) (dig) so that he could eat. I like _____ (4) (talk) to Ben about dinosaurs. He knows so much about them. I really hope he considers _____ (5) (study) paleontology at university when he is older.



E Unscramble the sentences.

1 visiting / likes / museum / Sarah / the / science

_____

2 father / enjoyed / with / Karen / hiking / her

_____

3 skull / pictures / paleontologists / finished / The / taking / the / of

_____

F Answer the questions.

1 What do you prefer eating for breakfast?

_____

2 What do you enjoy doing as a pastime?

_____

3 What did you finish doing recently?

_____

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LIVEWORKSHEETS

Communicate

Word Study

relief	grief	niece	piece	thief	brief

A Z

A **Read. Circle the *ie* words with a long *e* sound. Then match.**

1 My niece and her friend presented their science project about dinosaurs to the class. •

2 The broken dinosaur bone caused the museum director a lot of grief. •

3 The paleontologist took a brief rest under a beech tree. •

4 A thief stole a dinosaur skull from the museum. •

5 The museum director gave a sigh of relief when she finally had the whole skull. •

6 A piece of the skull was missing, but a little boy found it and gave it to the museum director. •

• a



• b



• c



• d



• e



• f



B **Complete the sentences with the words from the box above.**

My _____ (1) has a large collection of fossils that she found herself. One day she discovered that one of the fossils was gone! This caused her a lot of _____ (2). Who was the _____ (3)? During a _____ (4) search around for the fossil, she found a _____ (5) of a cookie under the table. She ran to the living room and laughed with _____ (6). Her baby brother was playing with the missing fossil!

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LIVEWORKSHEETS

Writing Study

A **Read. Circle the correct verbs. Write *C* if the underlined word is a count noun and *NC* if it is a noncount noun.**

1 A ravine **is** / **are** a good place to see layers of sedimentary rock. C

2 Paleontologists **excavates** / **excavate** carefully for bones. ____

3 Coal **is** / **are** a kind of sedimentary rock. ____

4 This dinosaur skull **has** / **have** huge teeth. ____

5 Water **wash** / **washes** sedimentary rock into rivers and lakes. ____

6 Many children **visit** / **visits** the Karoo to see the fossils there. ____

7 Volcanic ash **help** / **helps** scientists determine the age of a bone. ____

8 My niece **go** / **goes** to South Africa every summer to study fossils. ____

B **Write a paragraph about something old that people might look for in the ground.**

Read the example below. Use at least one verb followed by a gerund. Be sure that verbs correctly match the count and noncount nouns.

> Many people **enjoy looking** for old coins in the ground. **Coins fall** out of pockets and might stay in the ground for years. Some **people use** a special machine that makes a sound when it discovers a coin. **Dirt comes** off the coins easily when you wash them.

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LIVEWORKSHEETS

Wrap Up

Writing



A Read. Label the parts of the report.

A Photograph from the Past

Recently, I saw a photograph that someone took in Germany in 1890. The picture surprised me. I learned many things about the past from examining it.

The picture shows three girls walking to school on a sunny spring morning. They are dressed in cotton skirts. Two of the girls have leather book bags. This taught me that people used a lot of natural materials to make things at that time.

There is a horse and wagon in front of the girls. I learned that people used horses for transportation then. I can imagine the sound of the horse's hooves on the street.

Behind the girls, there is a bakery with fresh cakes in the window. I can almost smell the cakes and fresh bread. This taught me that people went shopping and ate delicious food, just as we do.

This photograph taught me that life was simpler in those days. People used animals for transportation, and they also used natural materials to make things. However, children still needed to eat and go to school, just as we do today.

B Plan your descriptive report. Choose a photograph. Then organize your ideas.

My Photograph: **Time** _____ **Place** _____				
I see _____	I hear _____	I smell _____	I taste _____	I touch _____
I learned _____				

C Now go to your notebook to write your own descriptive report about an old photograph. Then read and revise it.

My writing checklist:

- ☐ I included an interesting title.
- ☐ I introduced the photograph in the introduction paragraph.
- ☐ In the body, I described what I saw, heard, smelled, tasted, and touched.
- ☐ In the body, I wrote what I learned from the photograph.
- ☐ I summarized what I learned in the conclusion paragraph.

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LIVEWORKSHEETS

BIG QUESTION 2

How do we know what happened long ago?

Look back through Units 3 and 4:

How are archaeologists and paleontologists similar? How are they different?

What do you think we can learn from the past?

Review

A Read and number.

1 paleontologist
2 thief
3 archaeologist
4 tourist
5 treasure
6 emperor
7 peasant
8 soldier
9 general
10 uniforms












LIVEWORKSHEETS

B Complete the sentences with the word pairs in the box.

layers–ash	~~excavate–skull~~	jade–treasures
tripped–piece	dentist–examined	

1 Paleontologists will excavate this area to try to find the skull.
2 The _____ _____ the child's teeth and mouth.
3 The emperor's _____ ring was one of the best _____ they found.
4 They discovered the dinosaur bones between two _____ of _____.
5 The little boy _____ on a _____ of the dinosaur skull.

C Read. Circle the correct words.

1 The paleontologists agreed **to excavate** / **excavating** the area right away.
2 They expected **discovering** / **to discover** more bones near the skull.
3 The archaeologists finished **to examine** / **examining** the ancient tomb today.
4 Tara forgot **labeling** / **to label** the bone she found in the ravine.
5 The general didn't mind **letting** / **to let** his soldiers wash their uniforms.
6 The tourists seem **to like** / **liking** the dinosaur exhibit.

D Read. Circle the correct verbs.

Clay **seem** / **seems** (1) to last a very long time. The terracotta soldiers in China **is** / **are** (2) made of clay. They **look** / **looked** (3) very good even today. Archaeologists **is** / **are** (4) happy that this treasure **remain** / **remains** (5) almost the same as when the emperor saw them. Ancient armor also **stay** / **stays** (6) nearly the same for many years. Jade never **change** / **changes** (7). We **are** / **were** (8) fortunate that so many ancient items **is** / **are** (9) still the same today.



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LIVEWORKSHEETS