e-future DISCOVERY 5.3



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Technology

Discover

How

Unit 1 Roman Baths

Discover

How

Unit 2 Fighting Fire

Discover

What

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Discover

What

Unit 4 Seeing the Universe





Key Words

1 bathe 2 brick 3 flow 4 furnace

5 light 6 pipe 7 system 8 tunnel

B Choose and write the correct words from A.

1 _____: to make something burn

2 ______: a long underground passage

3 _____: a hard, rectangular block used to build walls

4 _____: a long, hollow tube

5 _____: a container used to make heat

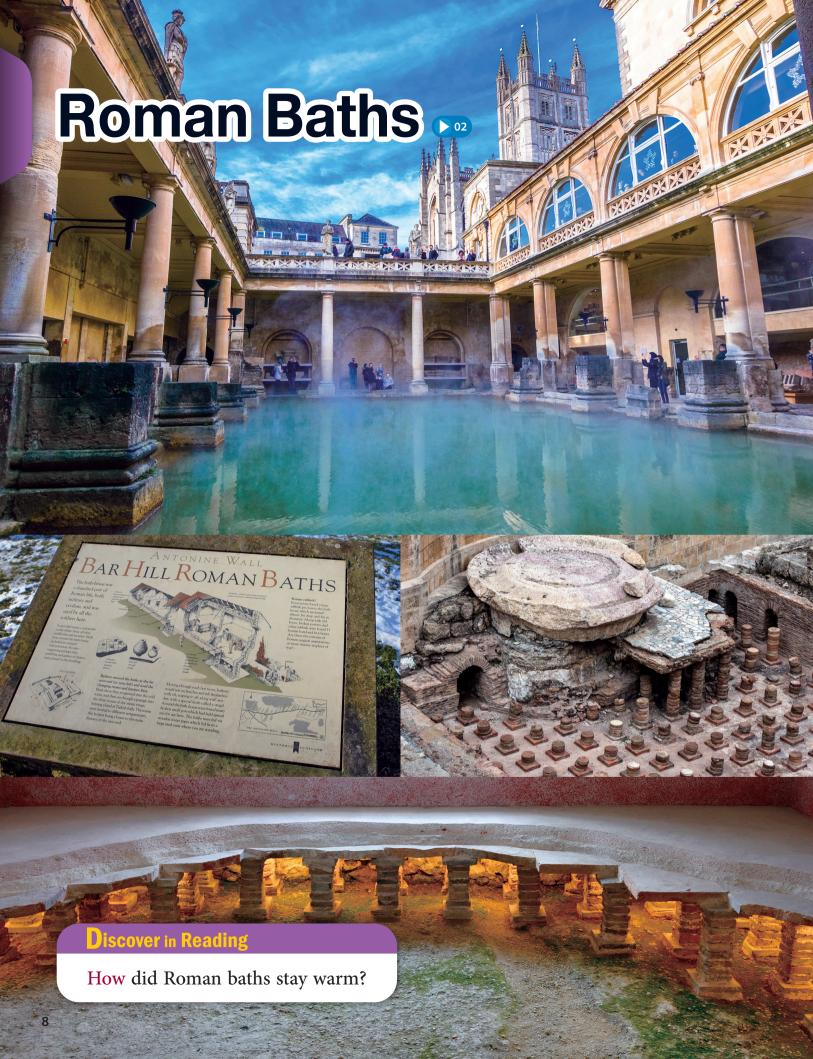
6 _____: to sit in a tub and wash your body

7 _____ : a group of connected parts that work together

: to move smoothly in one direction without stopping

© Choose and complete the sentences.

	bathe	bricks	flows	light	
1 Mr	Johnson used red		to build his hous	se.	
2 A riv	A river gently in the middle of a green field.				
3 It is	t is relaxing to in warm water before going to bed.				
4	the can	dles on the cak	ce before singing	g Happy Birthday.	



In ancient Rome, public baths were very popular. A public bath was like a community center where Romans relaxed and met with other people. It was a place for both **bathing** and socializing. The baths were special places, but the most amazing part about them was the bathwater. Romans knew how to keep it warm that long ago.

Roman baths had a clever underfloor heating **system** called "hypocaust." In this system, fires were **lit** in a **furnace** outside the bath. The fires made the air inside the furnace very hot. The hot air from the furnace then traveled throughout the bath. But how was that possible?



Roman baths had special **tunnels** under the floor. These tunnels were typically made using **brick** and clay. The hot air from the furnace circulated through the tunnels under the entire bath, keeping the floor warm. The heated floor then kept the bathwater nice and warm.

In addition to underfloor heating, the baths also had heated walls. Romans used clay **pipes** to let the hot air from the furnace **flow** through the bath's walls. The warm walls also helped keep the bathwater warm.

So, when ancient Romans wanted a relaxing bath, they did not have to worry about cold water. How nice!

Check

Reading Comprehension

Choose the correct answers.

1 What is the passage mainly about?

- a the people who went to Roman baths
- the system used to heat Roman baths
- the materials used to build Roman baths

2 What kind of place was a public bath for ancient Romans?

- a It was a place to play ball games.
- b It was a place to shop for food.
- o It was a place to relax and socialize.

3 What is true about the Roman "hypocaust" system?

- a The furnace was inside the bath.
- Hot air circulated through tunnels under the floor.
- The bathwater was heated by natural sunlight.

4 What is NOT true about ancient Roman baths?

- a They had a special way to keep bathwater warm.
- **b** Warm water traveled through pipes inside the walls.
- © People came to relax and meet with other people.

Think & Write

1	Why did Romans enjoy public baths?
	Because
2	What was special about Roman baths?
_	What was special about nomail baths?
	They

Graphic Organizer & Summary

(A) Complete the chart.

How Did Roman Baths Stay Warm?

They stayed warm using the system.					
Heated Floors					
• Fires were lit in a outside the bath.					
• Hot air circulated through under the floor.					
Heated Walls					
• Clay pipes let hot air through the bath's walls.					
• The warm walls helped keep the warm.					
bathwater flow furnace hypocaust tunnels					

B Complete the summary.

Public baths in ancient Rome served as centers where people bathed and socialized. The Romans' clever "hypocaust" system
used underfloor and heated walls to keep the bathwater
Hot air from a furnace traveled through tunnels under the
floor and clay in the walls. This heating
allowed Romans to enjoy warm baths without worrying about cold water.
community heating pipes system warm