

DATE

Imagine you are designing a brand new structural wonder. Where would you put it? What materials would you use? What features would you include? What would inspire its design? If you were to include a geometric pattern, what would it look like? Write a description of your structural wonder, and draw a picture of it.

DESCRIPTION



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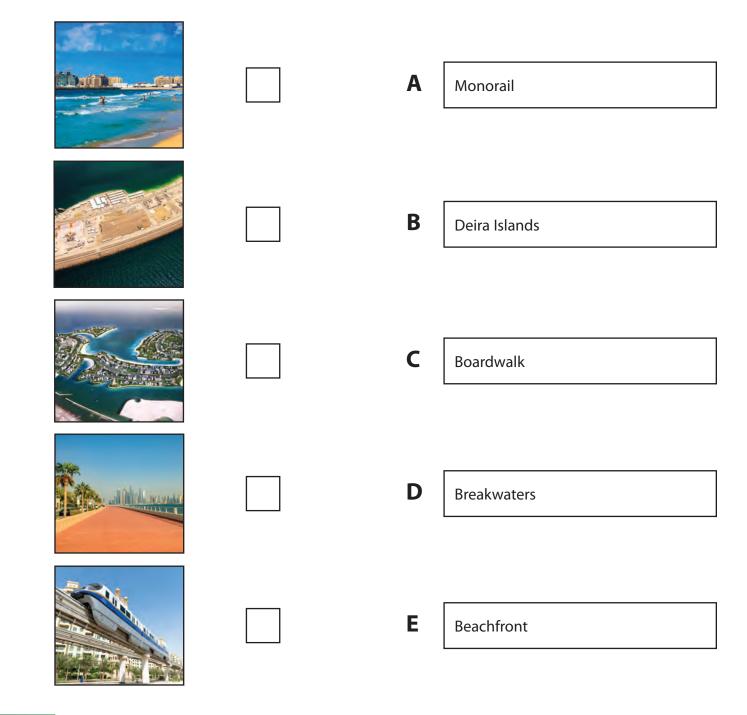


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DATE

Look at these pictures relating to the Palm Islands. Label each picture correctly.





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Complete the statements by filling in the correct number.

Workers moved this many million tons of rock to build Palm Jumeirah's breakwater.	11
The Palm Jumeirah breakwater is this many miles long.	25
In this year, construction of Palm Jumeirah's breakwater began.	3,000
The Palm Jumeirah breakwater is this many feet deep at its lowest point.	7
When complete, the Deira Islands will add this many miles of beaches to Dubai.	2001
Sheikh Mohammed bin Rashid Al Maktoum was born in this year.	34
Approximately this many people use the monorail every day.	1949



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Using information found in the book, verify whether the following statements are true or false. Check your answers in the book. List the page number where you found the information beside your answer.

Statement 1	There are different kinds of loads.	True	Page Number	
Statement 2	Sanjay Manchanda is the crown prince of Dubai.	True	Page Number	
Statement 3	Ships called dredgers sprayed the sand for Palm Jumeirah into place. The process is called "sunshining."	True	Page Number	
Statement 4	The UAE is a federation of five emirates.	True False	Page Number	
Statement 5	Palm Jumeirah is the seventh-largest artificial island in the world.	True True	Page Number	
PALM Pal	uctural Wonders of the World m Islands erence: All Pages		LEA	TBXX RNING ning. All rights reserved. om



DATE

Test your knowledge of the Palm Islands by answering these questions.

- 1. How many of the Palm Islands have been completed to date?
- 2. The Palm Islands are located off the shores of which city?
- 3. When did construction of the Palm Jumeirah tunnel end?
- 4. How many rooms does Atlantis, The Palm have?



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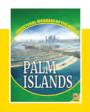
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	In which country is the city of Dubai located?
	Which leader of Dubai was the mastermind behind the Palm Islands project?
	How many tons (metric tons) of rock were used to build the breakwater at Palm Jumeirah?
•	How many breakwater islands does Palm Jumeirah have?
	What parts of Palm Jumeirah are linked by an undersea tunnel?
	How wide is Palm Jumeirah Boardwalk?
I	Which company developed Palm Jumeirah?
	How much did it cost to build Palm Jumeirah?









Key Words Match-Up

Write the words from the list below in the box above the correct definition for each word.

NAME

DATE

KEY WORDS Your Score I peninsula canal erode coordinates federation sediment loads diversify **Middle East** emirates 1. 6. countries or states ruled by monarchs to increase variety called emirs 7. material, such as sand and soil, that settles 2. the collection of forces acting on an object on the bottom of the seafloor 3. 8. an artificial waterway that has been made for the countries of southwestern Asia and boats to travel along northern Africa 4. 9. a set of numbers that indicate an an organization made up of smaller groups, parties, or states exact position 5. 10. a piece of land that is nearly surrounded to gradually wear away by water but still connected to land









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KEY WORDS

artificial	engineering land douglanment
breakwater	land development
compacted diameter	mythology recession
dikes	tripartite

- 11. a barrier that breaks the force of waves
- **12.** using scientific principles to design and build machines and structures
- a period of decreased economic activity
- 17. the longest distance across a circle

- **13.** constructed by humans, not by a natural process
- 14.

traditional stories about gods and heroes

15. the conversion of raw land into construction-ready building sites

- **18.** made up of three parts
- **19.** firmly packed
- 20.

16.

walls used to hold back water



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Rashid Al Maktoum

NAME DATE

1	UAE
2	Sheikh Mohammed bin Rashid Al Makt
3	7 million tons (7.1 million metric tons)
4	Three
5	The crescent and trunk
6	20 feet (6.1 m)
7	Nakheel
8	About \$12 billion



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