

# EXPLORING PLANET EARTH

## Chapter 1 Supplemental Questions

1. How was Ptolemy able to gather so much of the world's knowledge at that time for his library and museum in Alexandria, Egypt?

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2. Explain **one** of the three ways the Greeks knew the earth was round.

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3. What is the approximate circumference (the distance around) of the earth according to Eratosthenes in miles?

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## Chapter 2 Supplemental Questions

1. How were the Phoenician sailors able to use the location of the Big Dipper (Great Bear) to know their approximate location while they were traveling (North, South, East, West)?

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2. What is the importance of Polaris (the Pole Star) to the Phoenicians, or any sailors, in navigation?

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3. What two elements make up bronze?

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4. What is the largest landlocked sea in the world?

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5. What connects the Mediterranean to the Atlantic Ocean?

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### Chapter 3 Supplemental Questions

1. The Phoenicians and Greeks each explored for different reasons. What were they?

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2. What was the purpose of the Great Wall of China, and what is the approximate length of the wall in miles?

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3. Approximately how long, in months, did it take the Polos to return home, from Peking to Venice?

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### Chapter 4 Supplemental Questions

1. What does the latin word “navigation” mean?

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2. What was the purpose of the “cross staff,” and why was this information important to sailors?

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3. Where is the reference meridian for longitude located (city & country)?

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4. What country did the Portuguese explorer Vasco da Gama sail to that had never been sailed to from Europe?

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5. How long did it take Vasco da Gama to sail from Portugal to this country? \_\_\_\_\_

6. What southernmost part of Africa did da Gama sail around? \_\_\_\_\_

## Chapter 5 Supplemental Questions

1. Who were the rulers of Spain when Columbus made his voyage to the Americas?

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2. What were the names of Columbus' 3 ships?

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3. What name did Columbus give to the islands he discovered?

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4. What did Columbus call the natives of these islands?

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# EXPLORING PLANET EARTH

## Ch. 1-5 Review

### Short Answer:

1. How was Ptolemy able to gather so much of the world's knowledge at that time for his library and museum in Alexandria, Egypt?

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2. Explain **one** of the three ways the Greeks knew the earth was round.

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3. How were the Phoenician sailors able to use the location of the Big Dipper (Great Bear) to know their approximate location while they were traveling (North, South, East, West)?

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4. The Phoenician and Greeks each explored for different reasons. What were they?

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5. What was the purpose of the Great Wall of China, and what is the approximate length of the wall in miles?

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6. What was the purpose of the “cross staff,” and why was this information important to sailors?

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7. What were the names of Columbus’ 3 ships?

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**Matching:**

- 1. \_\_\_\_\_ Ptolemy
- 2. \_\_\_\_\_ Kublai Khan
- 3. \_\_\_\_\_ Marco Polo
- 4. \_\_\_\_\_ Vasco da Gama
- 5. \_\_\_\_\_ China
- 6. \_\_\_\_\_ Christopher Columbus
- 7. \_\_\_\_\_ Strait of Gibraltar
- 8. \_\_\_\_\_ 24,875 miles
- 9. \_\_\_\_\_ Santa Maria
- 10. \_\_\_\_\_ Henry the Navigator
- 11. \_\_\_\_\_ Eratosthenes
- 12. \_\_\_\_\_ The Big Dipper
- 13. \_\_\_\_\_ Amerigo Vespucci

- A. circumference of the earth
- B. part of the constellation Ursa Mayor used in navigation
- C. connects the Mediterranean Sea to the Atlantic Ocean
- D. opened a library and museum in Alexandria
- E. ruler of Mongol empire
- F. first European to explore China
- G. first explorer to sail to India
- H. calculated the circumference (distance around) the earth
- I. sailed West to find India
- J. the name of the ship Columbus sailed on to San Salvador
- K. built a small village in Sagres, Portugal, and built an observatory and started a school for navigation
- L. country where Great Wall was built
- M. gave his name to the new land

# EXPLORING PLANET EARTH

## Ch. 1-5 Test

Name \_\_\_\_\_ Date \_\_\_\_\_ Score \_\_\_\_\_

27/30 total

### Matching: (1 pt. each)

1. \_\_\_\_\_ Eratosthenes
2. \_\_\_\_\_ Strait of Gibraltar
3. \_\_\_\_\_ Henry the Navigator
4. \_\_\_\_\_ Amerigo Vespucci
5. \_\_\_\_\_ Marco Polo
6. \_\_\_\_\_ Kublai Khan
7. \_\_\_\_\_ Vasco da Gama
8. \_\_\_\_\_ Greenwich, England
9. \_\_\_\_\_ Ursa Major
10. \_\_\_\_\_ Columbus
11. \_\_\_\_\_ China
12. \_\_\_\_\_ Ptolemy
13. \_\_\_\_\_ Cape of Good Hope
14. \_\_\_\_\_ Santa Maria
15. \_\_\_\_\_ 24,875 miles

- A. reference meridian for longitude (city, country)
- B. southernmost part of Africa
- C. first European to explore China
- D. circumference of the earth
- E. ruler of Mongol empire
- F. calculated the circumference (distance around) of the earth
- G. the name of Columbus' largest ship
- H. the name of the constellation where Big Dipper is located
- I. connects the Mediterranean Sea to the Atlantic Ocean
- J. first explorer to sail to India
- K. sailed West to find India
- L. built a small village in Sagres, Portugal, and built an observatory and started a school for navigation
- M. country where Great Wall was built
- N. gave his name to the "new land"
- O. opened a library and museum in Alexandria

### Short Answer: (2 pts. each)

1. What was the purpose of the Great Wall of China, and what is its approximate length?

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2. What was the purpose of the "cross staff," and why was this information important to sailors?

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3. The Phoenicians and Greeks each explored for different reasons. What were they?

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4. How was Ptolemy able to gather so much of the world's knowledge at that time for his library and museum in Alexandria, Egypt?

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5. What are the special properties of asbestos and coal?

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6. Why were spices so strongly desired by the Europeans?

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**Bonus Question** (3 pts. – must be 2 or more paragraphs)

How did Eratosthenes calculate the circumference of the earth? (Hint: The relationship of Syene to Alexandria was known.)

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