

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

Home  
work

Date: \_\_\_\_\_ **1**

### Fill in the Blanks

*Use your study sheet to find the correct answers.*

#### ARISTOTLE'S CONCLUSION

Aristotle lived in G\_\_\_\_\_ about \_\_\_\_\_ years ago. He decided he could u\_\_\_\_\_ the world by using l\_\_\_\_\_ and r\_\_\_\_\_. Aristotle was convinced the w\_\_\_\_\_ was r\_\_\_\_\_. During a lunar e\_\_\_\_\_, he saw the s\_\_\_\_\_ of the e\_\_\_\_\_ was r\_\_\_\_\_. Further, A\_\_\_\_\_ saw that the position of the N\_\_\_\_\_ Star changed. Finally, he observed that when s\_\_\_\_\_ sailed into p\_\_\_\_\_, he saw the t\_\_\_\_\_ of their m\_\_\_\_\_ before he saw the hull . Aristotle never saw pictures from s\_\_\_\_\_, but he used l\_\_\_\_\_ and r\_\_\_\_\_ to conclude the earth was round.

#### Answer in complete sentences

*Use your study sheet to find the correct answers.*

#### ARISTOTLE'S CONCLUSION

1. How did the ancient Greeks explain natural events?

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2. **TEST** Describe two reasons why Aristotle concluded the earth was round.

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### Fill in the Blanks

Use your study sheet to find the correct answers.

#### NICHOLAS COPERNICUS AND THE HELIOCENTRIC UNIVERSE

In 1514, a deeply r\_\_\_\_\_ man named Nicholas

C\_\_\_\_\_ measured the relative a\_\_\_\_\_ of heavenly bodies and

c\_\_\_\_\_ that the universe was h\_l\_o\_e\_t\_i\_ because the e\_\_\_\_\_

traveled around the s\_\_\_\_. Copernicus circulated his o\_\_\_\_\_ anonymously

because he was afraid of c\_\_\_\_\_ long held b\_\_\_\_\_.

### Answer in complete sentences

Use your study sheet to find the correct answers.

#### NICHOLAS COPERNICUS AND THE HELIOCENTRIC UNIVERSE

3. What does the term *heliocentric* refer to?

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\*4. Why was Nicholas Copernicus afraid to publicly declare what he had discovered about the universe?

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### CHECK YOUR WORK:

Did you write in complete sentences?

Is your first and last name on the paper?

Is your writing neat and easy to understand?

\*A higher order learning question. I will accept any reasonable answer.

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### Fill in the Blanks

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#### GALILEO'S OBSERVATIONS

Galileo Galilei was an Italian who l\_\_\_\_\_ by o\_\_\_\_\_ and m\_\_\_\_\_ what he s\_\_\_\_. He was not yet \*t\_\_\_\_\_ years old when he discovered the concept of i\_\_\_\_\_ by o\_\_\_\_\_ a swinging altar lamp. Galileo learned of a d\_\_\_\_\_ that could m\_\_\_\_\_ distant objects, and soon after built a \*t\_\_\_\_\_ of his own. Galileo noticed that several m\_\_\_\_\_ orbited Jupiter, which disproved the t\_\_\_\_\_ that every h\_\_\_\_\_ body had to r\_\_\_\_\_ around the e\_\_\_\_\_. Sixteen years after his discovery, Galileo was sentenced to house a\_\_\_\_\_ because he taught people about the \*h\_\_\_\_\_ universe.

### Answer in complete sentences

Use your study sheet to find the correct answers.

1. How does a telescope magnify distant objects?

\_\_\_\_\_

\*2. Did Galileo prove Copernicus' theory that the earth traveled around the sun? Defend your answer.

\_\_\_\_\_

\_\_\_\_\_

\*3. Why do you think many people opposed Galileo's teaching of a heliocentric universe?

\_\_\_\_\_

\_\_\_\_\_

### Fill in the Blanks

Use your study sheet to find the correct answers.

#### ISAAC NEWTON AND GRAVITY

Isaac N\_\_\_\_\_ explained how people could live on a \*s\_\_\_\_\_ without falling off. Newton realized that everything in the u\_\_\_\_\_ was a\_\_\_\_\_ to everything else. He called this force g\_\_\_\_\_. When we jump, the earth's g\_\_\_\_\_ pulls us back. It's a good thing, because if we \*j\_\_\_\_\_ high enough, it would soon be difficult to \*b\_\_\_\_\_.

### Fill in the Blanks

Use your study sheet to find the correct answers.

\*4. Why are we attracted to the earth's gravity?

\_\_\_\_\_

\_\_\_\_\_

\*A higher order learning question. I will accept any reasonable answer.

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### Fill in the Blanks

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#### LONGITUDE AND LATITUDE

Our \*p\_\_\_\_\_ is a sphere. The ancient Babylonians divided spheres or c\_\_\_\_\_ into \_\_\_\_\_ degrees. Most Americans use a base ten numeral system, but Babylonian arithmetic used a place-valued sexagesimal<sup>1</sup> system. The Babylonian base sixty is still used in measuring time. Sixty \*s\_\_\_\_\_ equal one minute; 60 minutes equal one \*h\_\_\_\_\_.

Geographers created an imaginary grid to help locate places on earth. Lines of Latitude, or p\_\_\_\_\_, circle the globe from e\_\_\_\_\_ to w\_\_\_\_\_. 0° latitude is known as the e\_\_\_\_\_. The north and south p\_\_\_\_\_ are \_\_\_\_\_° from the equator. Lines of L\_\_\_\_\_, or m\_\_\_\_\_, run north to south. The P\_\_\_\_\_ M\_\_\_\_\_ runs through G\_\_\_\_\_, England.

The hour of the day is determined mostly by what part of the earth faces the \*s\_\_\_\_\_. When it's noon in Greenwich, it's close to \*m\_\_\_\_\_ along the I\_\_\_\_\_ D\_\_\_\_\_ L\_\_\_\_\_ because that line is about \_\_\_\_\_° from the Prime Meridian, or \*h\_l\_w\_y around the world. The h\_\_\_\_\_ of the day changes as you move e\_\_\_\_\_ or w\_\_\_\_\_ because you are moving closer to or away from the s\_\_\_\_\_. Our time zone, E\_\_\_\_\_ United States, is f\_\_\_\_\_ hours behind G\_\_\_\_\_ M\_\_\_\_\_ T\_\_\_\_\_ and three hours ahead of the state of \*C\_\_\_\_\_.

West Palm Beach, Florida is at \_\_\_\_\_° north and 80° w\_\_\_\_\_. This means we are 27° north of the e\_\_\_\_\_ and \_\_\_\_\_ degrees away from the Prime Meridian.

### Answer in complete sentences

*Use your study sheet to find the correct answers.*

5. How many degrees are in a circle?

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6. What is the equator?

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7. What imaginary lines parallel the globe from east to west?

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<sup>1</sup>Sexigenary refers to the number sixty. A sexagarian is someone who is \*s\_\_\_\_\_ years old.

\*A higher order learning question. I will accept any reasonable answer.

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#### SEASONS

Seasons occur because the e\_\_\_\_\_ is t\_\_\_\_\_ about 23½ d\_\_\_\_\_. Our days are longer in the s\_\_\_\_\_ because the e\_\_\_\_\_ is tilted t\_\_\_\_\_ the s\_\_\_\_\_. Days are s\_\_\_\_\_ in the w\_\_\_\_\_ because the e\_\_\_\_\_ is t\_\_\_\_\_ away from the sun. The first d\_\_\_\_ of winter is the s\_\_\_\_\_ day of the year, while the f\_\_\_\_\_ day of s\_\_\_\_\_ is the l\_\_\_\_\_ day of the year. Days and n\_\_\_\_\_ are exactly t\_\_\_\_\_ hours long on the first day of s\_\_\_\_\_ and the first day of a\_\_\_\_\_. The North and South \*P\_\_\_\_\_ f\_\_\_\_\_ the sun during the summer, so the s\_\_\_\_\_ does not set. In the winter, the poles remain d\_\_\_\_\_ throughout the d\_\_\_\_. This is why we call A\_\_\_\_\_ the “L\_\_\_\_\_ of the M\_\_\_\_\_ Sun.”

### Answer in complete sentences

Use your study sheet to find the correct answers.

1. Why do we have seasonal changes on earth?

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\*2. Describe how life might have developed differently if the North Pole always faced the sun and the South Pole always faced away from the sun.

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\*3. The Summer Olympics are usually held in June or July, but the 1956 Summer Olympics were held in Melbourne Australia. Use your logical skills to deduce the month that the Summer Olympics began in 1956. A logical guess is acceptable, but you can also find the answer online by following the links from [www.olympic.org](http://www.olympic.org).

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\*4. What is the longest day of the year in the Southern Hemisphere?

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#### TIME

Time c\_\_\_\_\_ as you move e\_\_\_\_\_ and w\_\_\_\_\_, so we d\_\_\_\_\_ the earth into twenty-four time z\_\_\_\_\_. The Time along the Prime Meridian is called G\_\_\_\_\_. Mean T\_\_\_\_\_. It is also called “universal” time because people communicating across different p\_\_\_\_\_ of the g\_\_\_\_\_ use Greenwich Mean Time to synchronize the schedules. Time zones in the continental United States are E\_\_\_\_\_, Central, M\_\_\_\_\_, and P\_\_\_\_\_.

### Answer in complete sentences

Use your study sheet to find the correct answers.

\*5. If it is midnight in Greenwich, England, about what time is it along most of the International Date Line? What time is it in Florida?

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6. **TEST QUESTION** Describe how life would be different if we all used a single time zone.

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### Fill in the Blanks

Use your study sheet to find the correct answers

#### DAYLIGHT SAVING TIME

Most of the United States move the c\_\_\_\_\_ ahead one h\_\_\_\_\_ from the f\_\_\_\_\_ Sunday in A\_\_\_\_\_ to the last S\_\_\_\_\_ in O\_\_\_\_\_. The idea of “D\_\_\_\_\_ Saving T\_\_\_\_\_” was originally proposed by B\_\_\_\_\_ Franklin, but was not put into practice until the \*t\_e\_t\_e\_h century. Today every state but H\_\_\_\_\_, Arizona, observes Daylight S\_\_\_\_\_ Time.”

### Answer in complete sentences

Use your study sheet to find the correct answers.

#### DAYLIGHT SAVING TIME

\*7. **TEST QUESTION** Do you think it a good or a bad idea to adopt Daylight Saving Time. Defend your answer.

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\*A higher order learning question. I will accept any reasonable answer.

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### Fill in the Blanks

Use your study sheet to find the correct answers

#### MEASURING TIME

We now have the ability to measure t\_\_\_\_\_ to within one s\_\_\_\_\_ every 1.4 \*m\_\_\_\_\_ years, but \*c\_\_\_\_\_ have not always been that \*a\_\_\_\_\_. Humankind first measured the hour of the day with s\_\_\_\_\_, but they were impractical at n\_\_\_\_\_ or on \*c\_\_\_\_\_ days. Europe's first m\_\_\_\_\_ clocks used b\_\_\_\_\_ in place of a d\_\_\_\_\_ because most people could not r\_\_\_\_\_.

Our seven-day w\_\_\_\_\_ came from the R\_\_\_\_\_, who borrowed it from the H\_\_\_\_\_. Our twelve m\_\_\_\_\_ correspond with the p\_\_\_\_\_ of the m\_\_\_\_\_, but we have added days to the months so that a cycle of twelve months is equal to a solar year.

### Answer in complete sentences

Use your study sheet to find the correct answers.

\*1. Give an example from modern society that demonstrates how we rely on knowing the exact time.

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2. What do a.m. and p.m. mean? What do the terms translate to in English?

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3. From whom did the Romans adopt the seven-day week?

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### Fill in the Blanks

Use your study sheet to find the correct answers.

#### YEARS

A s\_\_\_\_\_ year lasts 365.242199 days, but the R\_\_\_\_\_ created a calendar that lasted 365.25 days. We began using the G\_\_\_\_\_ calendar \*\_\_\_\_\_ years ago. The G\_\_\_\_\_ calendar s\_\_\_\_\_ the s\_\_\_\_\_ year with the c\_\_\_\_\_ year. Most years d\_\_\_\_\_ by f\_\_\_\_\_ are l\_\_\_\_\_ years, where an extra d\_\_\_\_\_ is added after February \_\_\_\_\_.

### Unscramble

See if you can guess the answer. You can skip this problem.

What happened in the American colonies on October 7, 1582?

**ABLOSTUY  
GHINNOT**

\*A higher order learning question. I will accept any reasonable answer.

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**Answer in complete sentences**

*Use your study sheet to find the correct answers.*

**YEARS**

\*4. From the list below, circle the leap years in the Gregorian calendar. Five are leap years and five are not.

**1992    2000    2001    2002    2004    2006    2008    2010    2012    2014**

\*5. Why does the Gregorian calendar have leap years?

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**Fill in the Blanks**

*Use your study sheet to find the correct answers.*

**MAP PROJECTIONS**

The earth is a s\_\_\_\_\_, and it is i\_p\_s\_ib\_e to create a f\_\_\_\_\_ map of a \*s\_h\_r\_c\_l object without d\_\_\_\_\_. The Mercator P\_\_\_\_\_ is excellent for n\_\_\_\_\_ because it shows d\_\_\_\_\_ clearly. P\_\_\_\_\_ and m\_\_\_\_\_ cross a r\_\_\_\_\_ angles M\_\_\_\_\_ Projection, so the maps have a great deal of d\_\_\_\_\_. An e\_\_\_\_\_ area m\_\_\_ displays s\_\_\_\_\_ and s\_\_\_\_\_ more a\_\_\_\_\_ than a M\_\_\_\_\_ Projection, but on this type of map, p\_\_\_\_\_ and m\_\_\_\_\_ do not c\_\_\_\_\_ at right a\_\_\_\_\_.

**Answer in complete sentences**

*Use your study sheet to find the correct answers.*

**MAP PROJECTIONS**

\*6. Explain why it is impossible to display a map of the world on a flat surface without stretching or shrinking some places.

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7. What is a map projection?

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\*8. What part of the earth is “squeezed” into a smaller area by the Mercator Projection? Why?

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\*A higher order learning question. I will accept any reasonable answer.