



Dear Educator,

This file offers views of some of the worksheets in our “Exploring Time” thematic unit. The cover for an eWorkbook is shown followed by the preview pages.

The “Exploring Time” unit offers [14 pages](#).

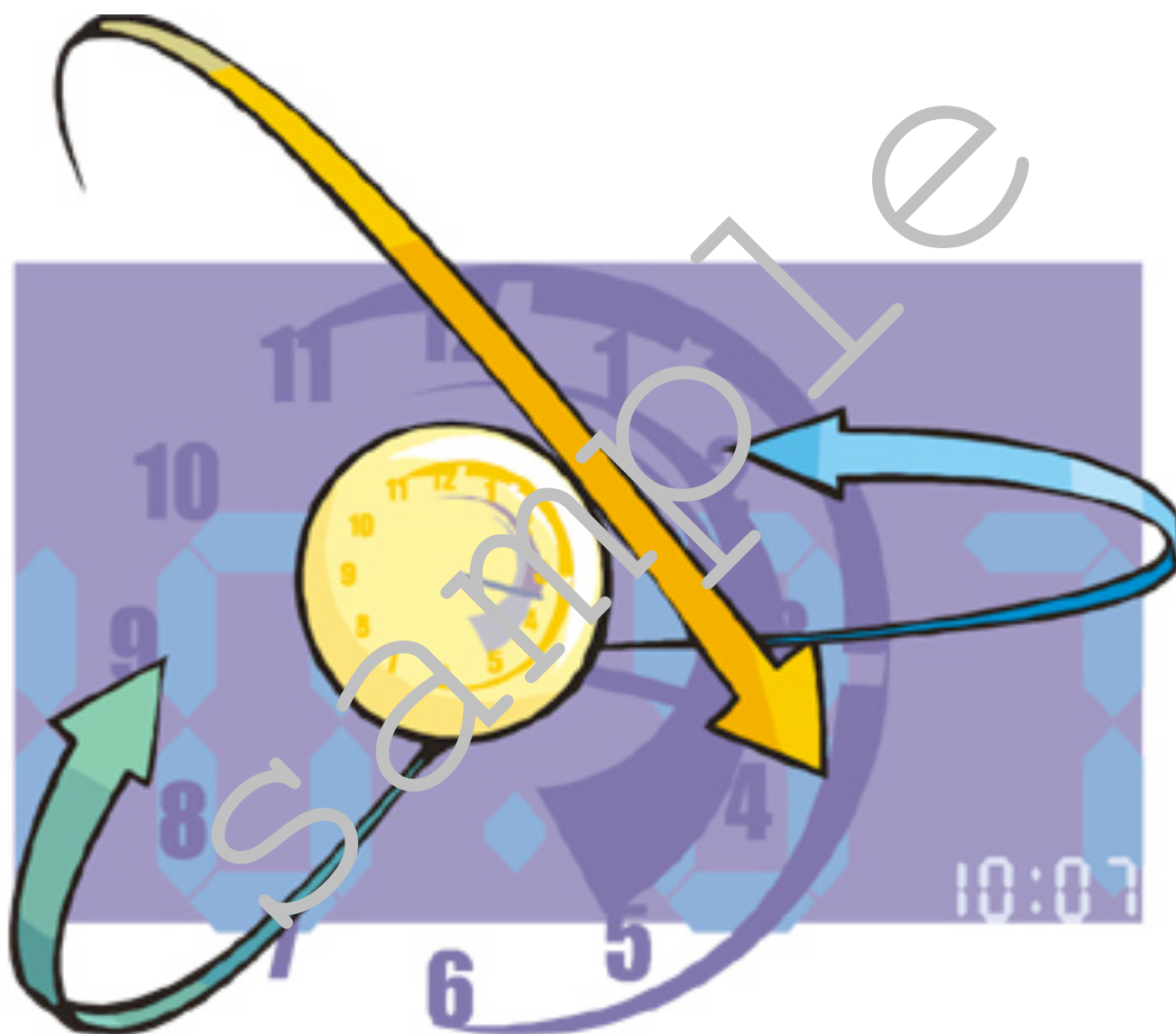
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Free worksheets, teacher tools, and more can be found here.

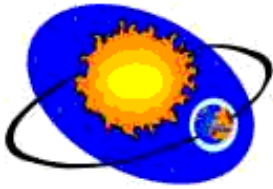
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# EXPLORING TIME



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## What are time patterns?



A second is  $\frac{1}{60}$ th of a minute. A minute is  $\frac{1}{60}$ th of an hour. An hour is  $\frac{1}{24}$ th of a day. A day is  $\frac{1}{30}$ th of some months,  $\frac{1}{31}$ st of others and  $\frac{1}{28}$ th or  $\frac{1}{29}$ th of one month.

The patterns of seconds, minutes, hours and days are based on the Earth spinning on its axis. The darkness of night and light of day have to do with which part of Earth is facing the sun.

Months are based on the pattern of the moon orbiting Earth. During a moon cycle we have a full moon, quarter moon and a little sliver of a moon. Each 24 hours the moon and Earth are in a little different part of their orbit cycles.

Earth moves in an orbit, too. It orbits the sun. During this orbiting process seasons change. As the seasons change from winter to spring to summer and to fall, a year passes.

Write the names of the months on the lines below. Begin with January.  
Write the number of days in each month. You may need to look at a calendar for this activity.

Month	Days	Month	Days
January	_____	July	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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There are 24 hours in each day. By dividing every place on Earth into 24 time zones everybody experiences pretty much the same sort of day. 7:00 AM is the early morning, 12 noon is the middle of the day and 8:00 PM is evening.

Most neighboring cities are in the same time zone. When two cities are in different time zones their times are always one hour earlier or later. Most countries around the world also use this time zone system.

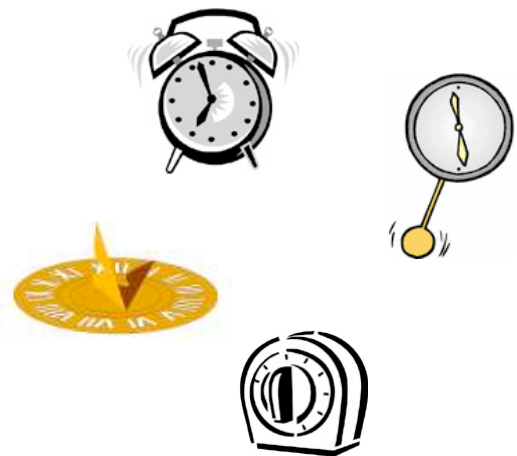
The **prime meridian** is a “place” on the globe at something called “zero-degree longitude.” The prime meridian passes straight through Greenwich, England. This is the place from which time is measured. It is called **Greenwich Mean Time**.

Halfway around the globe in the Pacific Ocean is the **International Date Line** at “180 degrees longitude.” Here is where the date changes from “today” to “tomorrow.”

Want to learn more about time?

If time interests you, there is much more to learn about it. Here is a list of topics you might like to research at home, in the Library or on the Internet.

1. The Sundial
2. Pendulum Clocks
3. Military Time
4. Quartz Clocks
5. Clockwise and Counterclockwise
6. Hemispheres
7. Timers
8. Where Names of Days & Months Came From
9. Atomic Clocks



# EXPLORING TIME

## CRISS CROSS

Can you fit these words into the criss cross?  
Use a pencil so you can erase if you need to.

prime  
leap

orbit  
measure

month  
meridian

clock  
hour

