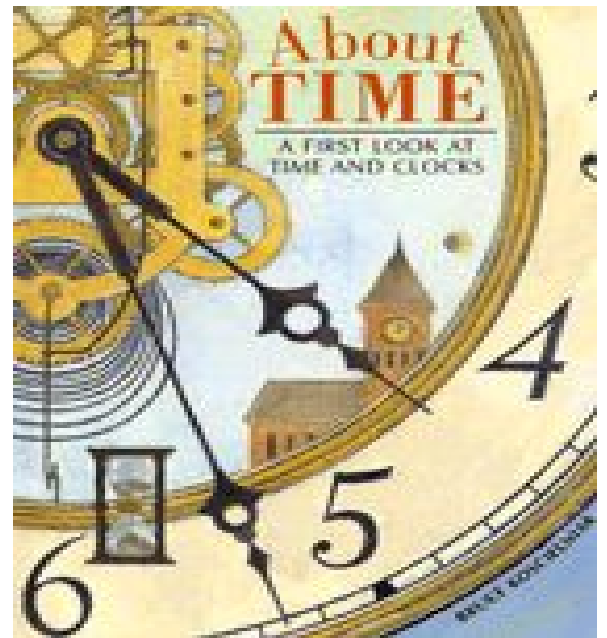


ABOUT TIME

A first look at Time
and clocks.



BY: Bruce Koscielniak

DAY 1...MONDAY

PAGES 3-7 (Gregorian Calendar)

PRINCIPLE

PG. 4

Basic rule or law that supports an idea.

“Time for most of us is the organizing **principle** in our daily lives, and its passage sweeps us all from cradle to grave.”

NON EXAMPLE: PRINCIPAL.....The Principal is Mr. Blasquez

INTERVAL

A set amount of time between two events or moments.

“ We can begin by saying that time is what is measured by a regular or standard **interval** -a second, a minute, an hour, for example - that is chimed, ticked, beeped, or in some way displayed by a time-measuring device called a clock.



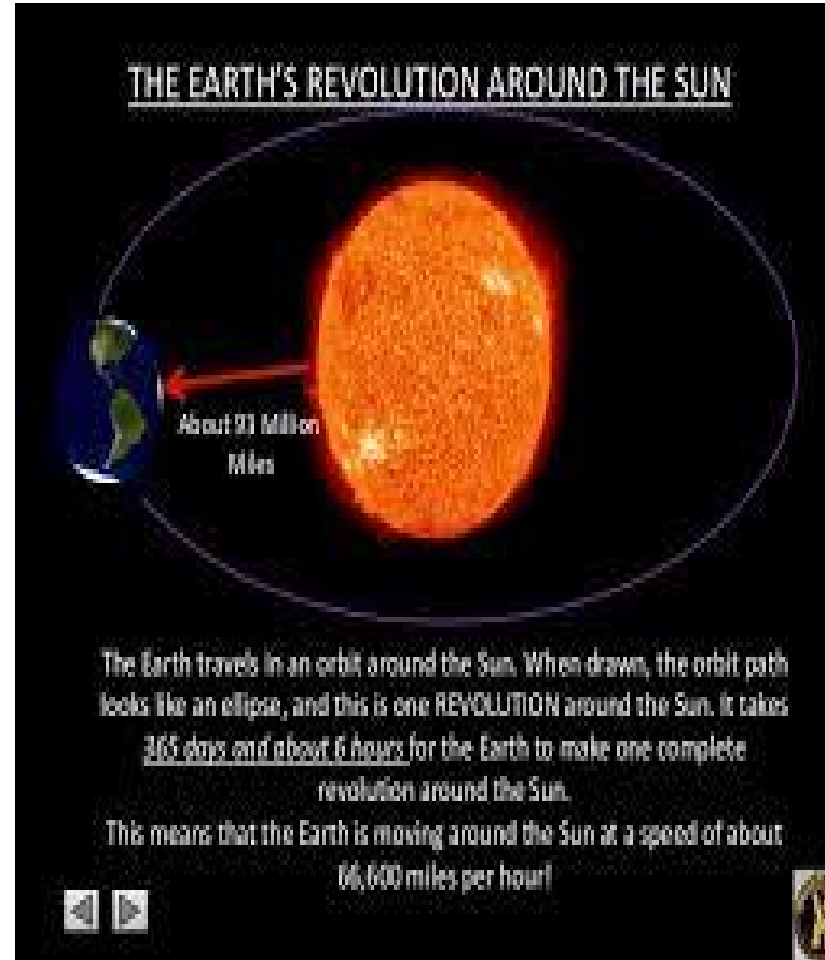
REVOLUTION

DEFINITION:

The complete circle around the sun.

NON EXAMPLE: to overthrow a government

EXAMPLE: SPINNING, TURING



REVOLUTION OF THE EARTH AROUND THE SUN



REVOLUTION

HOW MANY REVOLUTIONS DOES IT TAKE THE EARTH TO ROTATE AROUND THE SUN TO MAKE A YEAR?

IT TAKE _____ REVOLUTIONS AROUND THE SUN TO MAKE AN ENTIRE YEAR.

WHAT CAUSES THE SEASONS?

The earth year is _____ days. In $356 \frac{1}{4}$ days the earth completes a _____ around the sun causing the _____. Because the earth's axis is _____, the hemisphere tilted toward the sun is _____, the hemisphere tilted away is _____.

WORDBANK: cooler, tilted revolution $356 \frac{1}{4}$ warmer season

COINCIDED

pg. 6

Happened at or about the same time.

TEXT EVIDENCE

“The Egyptians by 2600 B.C. had a solar-based (or sun-based) calendar of 365 days, and they began their year with the rising in the east of Sirius, the “Dog Star,” which **coincided** with the flooding of the Nile.”

REASON FOR THE SEASONS

TILT OF AXIS MEANS? _____

_____.

WE HAVE SEASONS BECAUSE

_____.



ASSIGNMENT

1. PARTNER READ: Page 3-7
2. Answer questions segment 1 (on google classroom).
3. READWORKS: What causes the seasons: www.readworks.org/student
4. **Pen Pal Schools. See what pen pals you got then** Learn more about an athlete or team competing in the 2018 Winter Olympics. Share what you learn with your PenPals and say whether you think the athlete you profiled might win!
<https://go.penpalschools.com> WE WILL BE DOING THIS TOGETHER AT 10:40

DAY 2-----TUESDAY Pages 8 - 13

Egyptian obelisks to Monastic water wheel, bell clock.

ALIGNED

PG. 9

Arranged in a line

CONSISTENT

PG. 10

Able to repeat with little variation

CYLINDER

PG 11

An object that is shaped like a tube

CORROSION

PG. 11

Rust or decay

MEDIEVAL

PG 13

The name given to the Middle Ages (about 500 A.D. to 1500 A.D.) in Europe

SEGMENT 3....WEDNESDAY

European Monasteries to Engravers, gilders and enamellers

Mechanical

pg. 14

Working like a machine, in an automatic way

Rudimentary

Pg. 14

Very basic, or simplest form

Gears

Pg. 14

Grooved wheels that cause other grooved wheels to move

Coil

Pg. 19

PRECISION

Pg. 20

Done with accuracy or in an exact way

SEGMENT 4 -----THURSDAY

PAGE 22-30

Dutch Mathematician to end

REGULATE

pg. 23

To control the way something works

Adjacent

pg. 26

Located near or next to something

Theory

pg. 29

An idea or belief that has not been proven

EXTRA VOCABULARY

Lunar and Solar Eclipse

SOLAR ECLIPSE

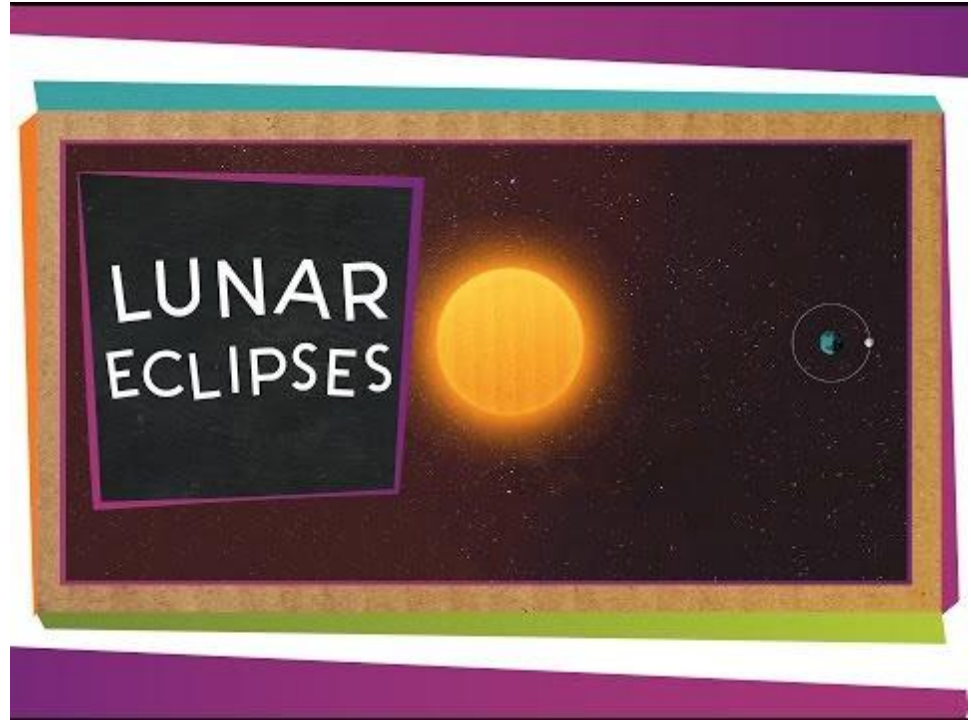
A _____ is where the
_____ passes between the _____
and the _____ fully or partially
Blocks the _____.

Moon passes between the Sun and Earth, and
the Moon fully or partially blocks ("occults") the Sun.



LUNAR ECLIPSE

Lunar eclipses occur when Earth's shadow blocks the sun's light, which otherwise reflects off the **moon**. There are three types — **total, partial and penumbral** — with the most dramatic being a total **lunar eclipse**, in which Earth's shadow completely covers the **moon**.



DATES FOR NEXT ECLIPSES

SOLAR ECLIPSE IS: Monday, August 21

Solar eclipse of August 21, 2017

LUNAR ECLIPSE IS: Saturday, February 11

February 2017 lunar eclipse...WOW, THAT IS THIS SATURDAY!