

GEOGRAPHY & HISTORY

1º DE E.S.O



IES FERNANDO III
CENTRO BILINGÜE



UNIT 1: THE PLANET EARTH

OUTLINE	ASPECTOS LINGÜÍSTICOS	VOCABULARY
1 - THE PLANET EARTH <ul style="list-style-type: none"> • DEFINITION • ACTIVITIES 2 - ROTATION AND ORBIT <ul style="list-style-type: none"> • ROTATION • REVOLUTION • ACTIVITIES 3 - GEOGRAPHIC GRID LINES AND GEOGRAPHIC COORDINATE SYSTEM <ul style="list-style-type: none"> • GEOGRAPHIC GRID LINES • GEOGRAPHIC COORDINATE SYSTEM • ACTIVITIES 4 - TIME ZONES <ul style="list-style-type: none"> • DEFINITION AND CHARACTERISTICS OF TIME ZONES • ACTIVITIES 5 - VOCABULARY	<ul style="list-style-type: none"> • VERBO "SER". <hr/> <p style="text-align: center;">PHONETICS</p> <ul style="list-style-type: none"> ▪ THE IMPORTANCE OF PHONETICS. ▪ THE SOUND / ʃ / 	<ul style="list-style-type: none"> ▪ EARTH ▪ MOON ▪ SUN ▪ AXIS ▪ REVOLUTION ▪ SEASONS ▪ SPRING ▪ SUMMER ▪ AUTUMN ▪ WINTER ▪ PARALLELS ▪ MERIDIANS ▪ HEMISPHERE ▪ POLE ▪ LATITUDE ▪ LONGITUDE ▪ MEASURE ▪ COORDINATES ▪ TIME ZONES



1 - THE PLANET EARTH

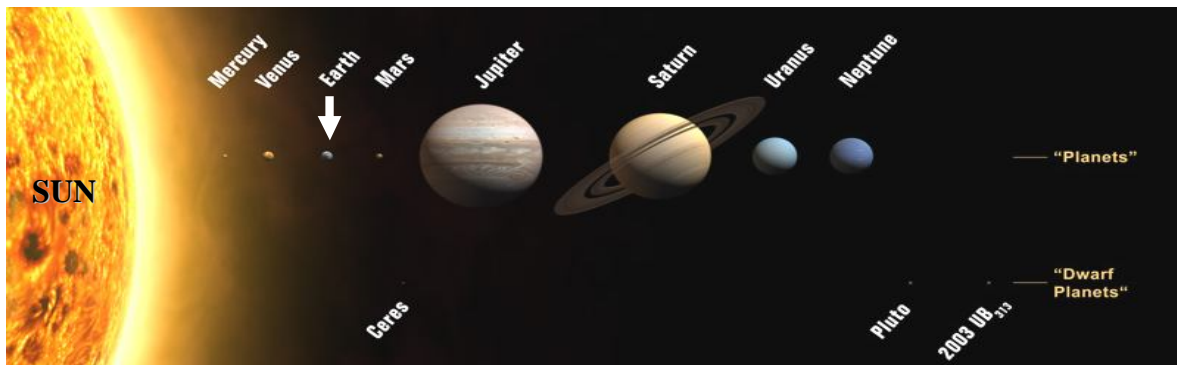
▪ **Definition**

- The Earth is a planet.



- It's in the Solar System. The Solar System has eight planets (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune).

Image from: <http://www.astronet.ru/db/xware/msg/1215442>



- The Earth is the third planet from the Sun. It is about 150 million kilometres away from the sun.

- The Moon is the Earth's only natural satellite.



Fly me to the Moon
(a Frank Sinatra song)

- The Earth's surface is made of about 70% water and of about 30% land.

- The Earth's astrological symbol is:



▪ **Activities:**

- Answer these questions.

- What is the Earth? :
- Where is the Earth? :
- How many planets does the Solar System have? List their names:
- How far is the Earth from the Sun? :
- What's the name of the Earth's only natural satellite? :

- Fill in the blank spaces.

- The Earth's is made of about 70 % and of% land.

- Draw the Earth's astrological symbol:

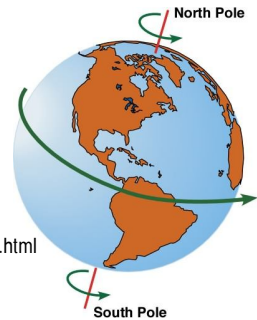


2 - ROTATION AND ORBIT

Rotation

- The Earth *rotates* on its own axis in 24 hours (23 hours and 56 minutes). One complete *rotation* equals 1 day. The Earth's rotation causes day and night.

Image from: <http://www.physicalgeography.net/fundamentals/6h.html>



Revolution

- The Earth *revolves* around the Sun. The *revolution* is the Earth's orbit, or, the path around the Sun. One complete revolution around the Sun equals 1 year (365 days, 6 hours). The Earth's revolution causes the four seasons (Winter, Spring, Summer and Autumn).

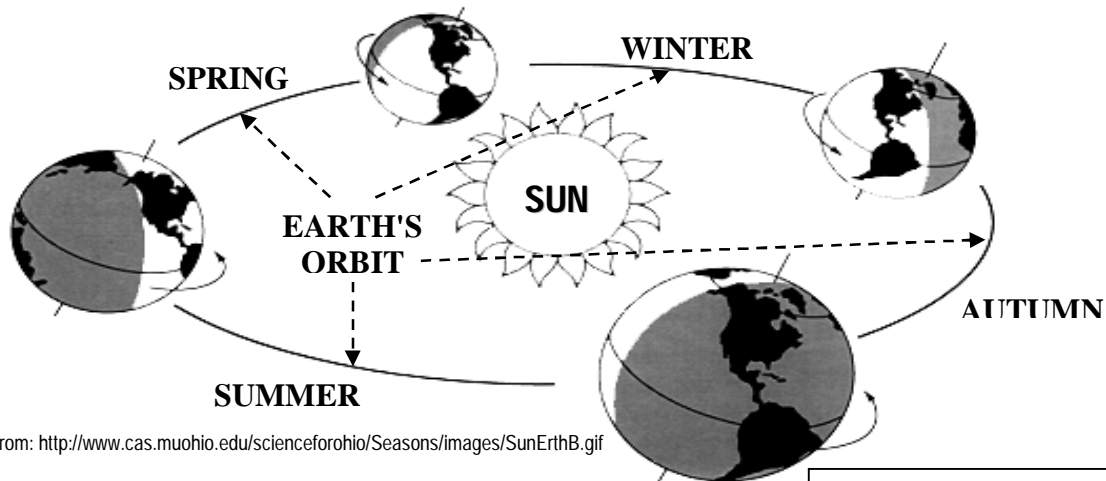


Image from: <http://www.cas.muohio.edu/scienceforohio/Seasons/images/SunErthB.gif>

The Four Seasons
(The name of Vivaldi's concertos)

Activities:

- Answer these questions.

- What does the Earth rotate on? :
- What does the Earth's rotation cause? :
- How long does it take for the Earth to rotate around the Sun? :

- Fill in the blank spaces.

- The Earth'scauses the four seasons:,, and

- Write the seasons names in its corresponding symbol:



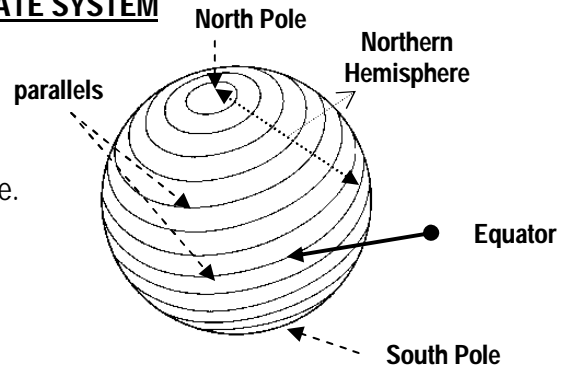
Image from: <http://www.edupics.com/en-coloring-pictures-pages-photo-symbols-seasons-i10031.html>



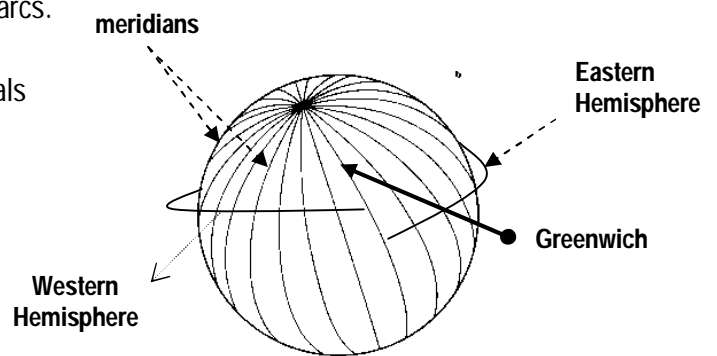
3 - GEOGRAPHIC GRID LINES AND GEOGRAPHIC COORDINATE SYSTEM

▪ **Geographic grid lines**

- Parallels are imaginary east-west lines or circles. They measure LATITUDE.
- The Equator is a parallel that equals 0 degrees of latitude. It divides the Earth into the Northern Hemisphere and the Southern Hemisphere.

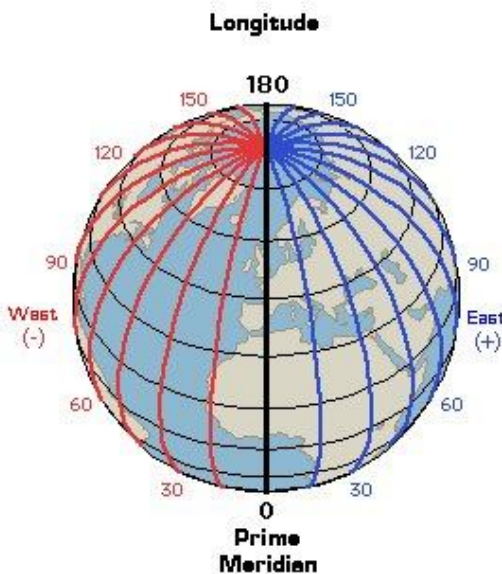
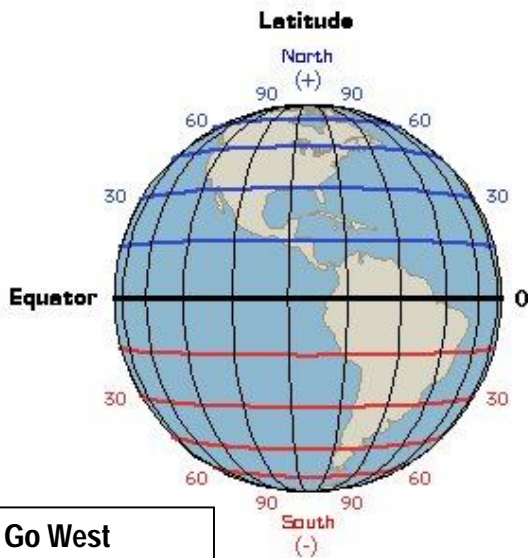


- Meridians are imaginary north-south lines or arcs. They measure LONGITUDE.
- The Prime Meridian (or Greenwich Meridian) equals 0 degree of longitude. It divides the Earth into the Eastern Hemisphere and the Western Hemisphere.



▪ **Geographic coordinate system**

- Latitude measures distance *North* or *South* of the Equator in degrees, minutes and seconds of arc. It gives the location of a place North or South of the Equator.
- Longitude measures distance East or West of the Prime Meridian (Greenwich Meridian) in degrees, minutes and seconds of arc. It gives the location of a place on Earth East or West of the Greenwich Meridian.



Go West
(a Village People's song)

Image from: http://www.geographyalltheway.com/year7_geography/maps_atlases/longitude_latitude.htm

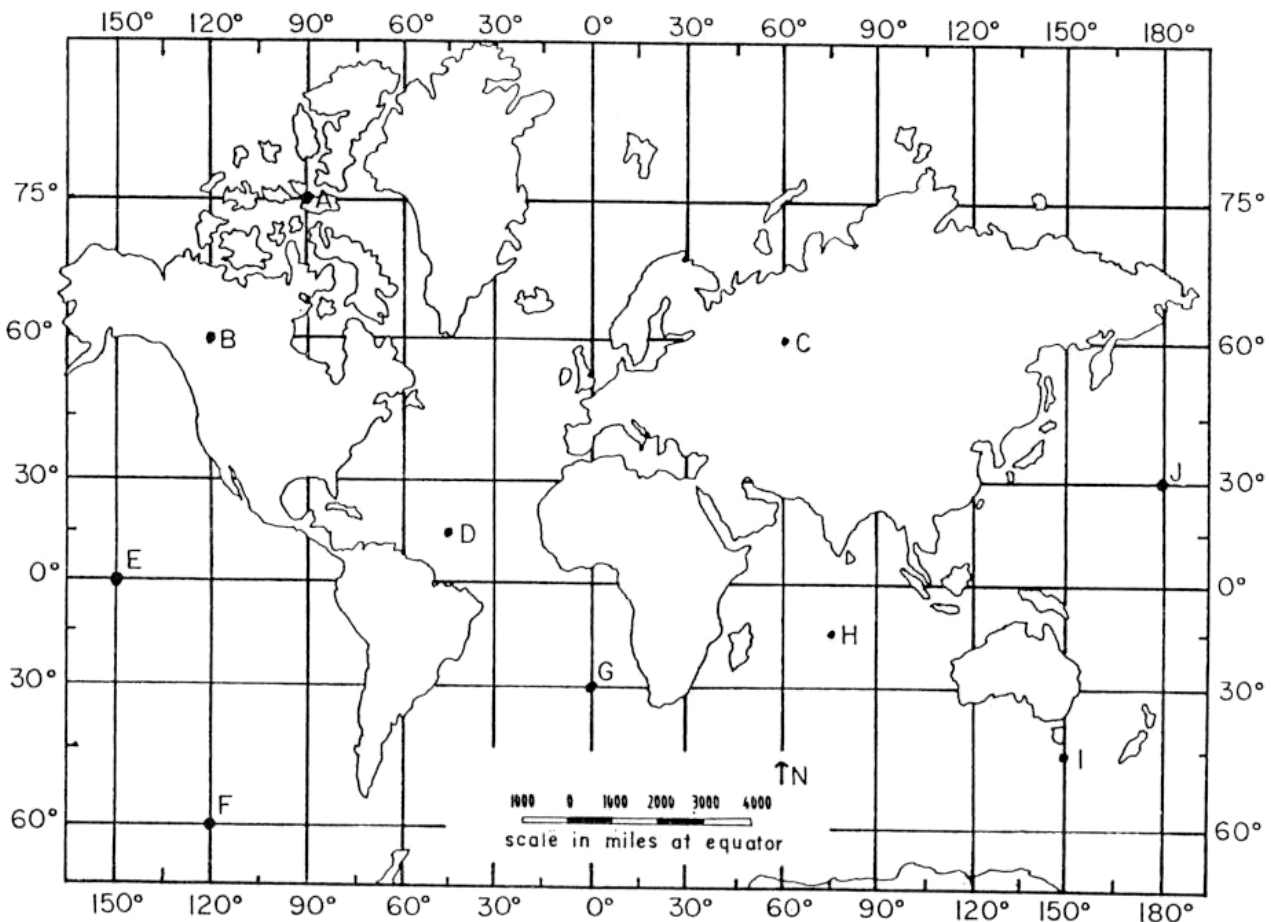


Activities:

- Fill in the blank spaces.
 - Latitude measures distance from..... to.....
 - Longitude measures distance from.....to.....

- Draw a red line along the Equator (0 degrees latitude).
- Draw a blue line along the Prime Meridian (0 degrees longitude).

- Write the coordinates in longitude and latitude of these places:
 - A:
 - B:
 - C:
 - D:
 - F:
 - G:
 - H:
 - I:



7:05

(a Jonas Brothers' song; from <<It's about time>>)

Image from: <http://www.jsu.edu/depart/geography/mhill/phygeogone/latlngpr.html>

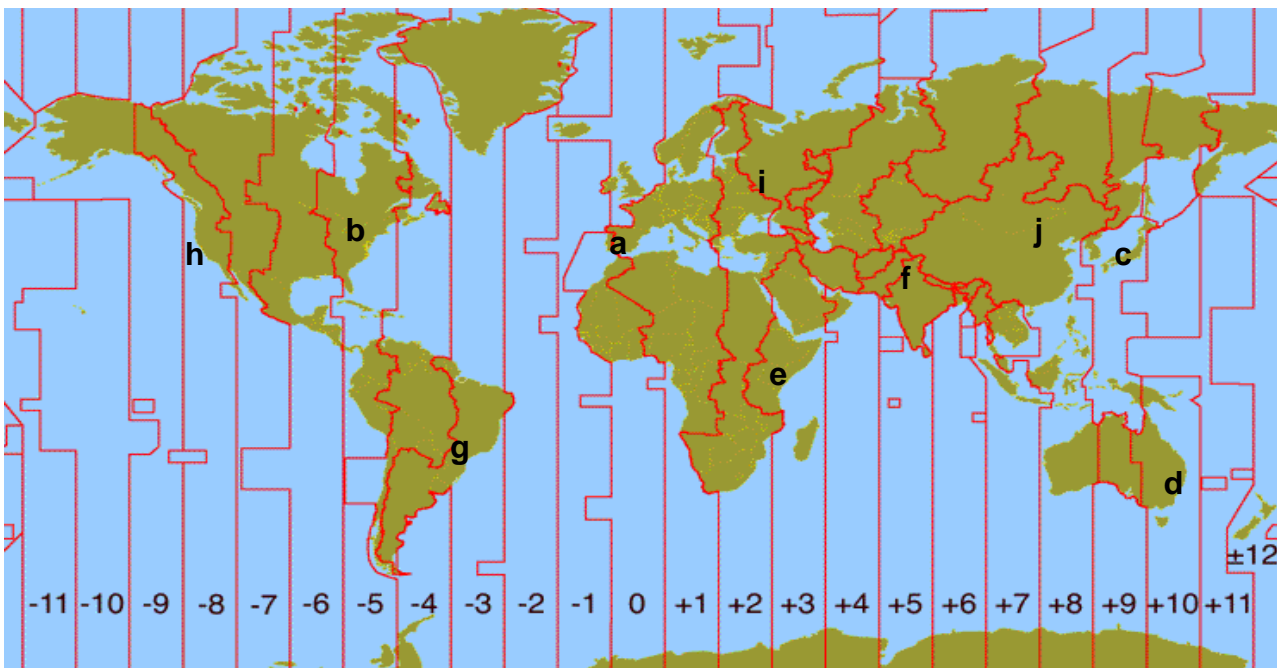


4 - TIME ZONES

Definition and characteristics of time zones:

- The Earth rotates from West to East, so the Sun goes up in the East and goes down in the West.
- The Earth rotates on its own axis in 24 hours, and the planet is divided into 24 time zones.
- The Greenwich meridian is 0 degrees longitude, so it is 0 time zone (its name is GMT or Greenwich Main Time).
- There are 12 time zones to the East of 0 time zone (GMT). These time zones are positive numbers (GMT +1, GMT +2, GMT +3,...).
- There are 12 time zones to the West of 0 time zone (GMT). These time zones are negative numbers (GMT -1, GMT -2, GMT -3,...).

Image from: <http://www.physicalgeography.net/fundamentals/2c.html>



▪ **Activities:**

- Answer these questions.

- What direction does the Earth rotate? :
- How many time zones divide the Earth? :
- What's the name of 0 time zone? :

- Fill in the blank spaces.

- There are.....time zones to the East of 0.....(GMT).
- There are.....time zones to the West of 0 time zone (.....).



I.E.S. FERNANDO III EL SANTO
CENTRO BILINGÜE

GEOGRAPHY AND HISTORY

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- Use the map above to find the time zones of these cities and countries:

If the time in London Greenwich is 15:00 hours,

what time is it in Madrid **(a)**? :

in New York **(b)**? :

in Tokyo **(c)**? :

in Sidney **(d)**? :

in Nairobi**(e)**? :

in New Dehli **(f)**? :

in Rio de Janeiro**(g)**? :

in San Francisco **(h)**? :

in Moscow **(i)**? :

in Beijing **(j)**? :



5 – VOCABULARY

ENGLISH	PRONUNCIATION	SPANISH
Around <i>preposición</i>	/ə'raʊnd/	Alrededor de
Autumn <i>sust.</i>	/'ɔ:təm/	Otoño
Axis <i>sust.</i>	/'æksəs /	Eje
Between <i>preposición</i>	/bɪ'twi:n/	Entre
Coordinates <i>sust.</i>	/kəʊ'ɔ:rdɪnət /	Coordenados
Degrees <i>sust.</i>	/dɪ'grɪ:/	Grados
Distance <i>sust.</i>	/'dɪstəns/	Distancia
Earth <i>sust.</i>	/ɜ:rθ /	La Tierra
Eastern Hemisphere <i>sust.</i>	/'i:stərn / /'heməsfrɪ /	Hemisferio Oriental
Equator <i>sust.</i>	/'i:kweɪtər /	El Ecuador
Greenwich Main Time (GMT) <i>sust.</i>	/'grɛnɪdʒ//mi:n/ /taɪm/	Hora mediade Greenwich
Latitude <i>sust.</i>	/'lætətʉ:d /	Latitud
Longitude <i>sust.</i>	/'lɑ:ndʒətʉ:d /	Longitud
Moon <i>sust.</i>	/mu:n/	La Luna
Night <i>sust.</i>	/naɪt/	Noche
North Pole <i>sust.</i>	/nɔ:rθ / /pəʊl/	El Polo Norte
Northern Hemisphere <i>sust.</i>	/'nɔ:rðərn / /'heməsfrɪ /	Hemisferio Norte
Parallels <i>sust.</i>	/'pærəleɪ/	Paralelos
Prime Meridian <i>adj. and sust.</i>	/praɪm/	Primer Meridiano
Revolution <i>sust.</i>	/'revə'lu:ʃən/	Traslación
Rotation <i>sust.</i>	/rəʊ'teɪʃən/	Rotación
Sea <i>sust.</i>	/si:/	Mar
Seasons <i>sust.</i>	/'si:zən/	Estaciones
Shape <i>sust.</i>	/ʃeɪp/	Forma
Spring <i>sust.</i>	/sprɪŋ/	Primavera
Solar System <i>sust.</i>	/'səʊlər / /'sɪstəm/	Sistema Solar
South Pole <i>sust.</i>	/saʊθ / /pəʊl/	El Polo Sur
Southern Hemisphere <i>sust.</i>	/'sʌðərn / /'heməsfrɪ /	Hemisferio Austral
Surface <i>sust.</i>	/'sɜ:rfəs /	Superficie
Summer <i>sust.</i>	/'sʌmə /	Verano
Sun <i>sust.</i>	/sʌn/	El Sol
Time <i>sust.</i>	/taɪm/	Tiempo
Time Zones <i>sust.</i>	/taɪm/ /zəʊn/	Huso Horario
From...to... <i>Preposiciones</i>	/tu: / . . . /frɑ:m /	Desde...hacia (hasta)...
To Measure <i>verbo</i>	/'meʒər /	Medir
To Rotate <i>verbo.</i>	/'rəʊteɪt /	Girar
Western Hemisphere <i>sust.</i>	/'westərn / /'heməsfrɪ /	Hemisferio Occidental
Winter <i>sust.</i>	/'wɪntər /	Invierno