



Topic/Objective CHAPTER: 2

NAME:

Mapping

Pd: 1 2 4 5 other

video: Monkey See

DATE

Essential Question What is Topography?

What is Topographic Maps?

Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

Topographic
Maps

→ maps that use contour lines, symbols and colors to show Δ in elevation and features on $\oplus$'s surface.
Change

Contour
lines

→ connect points of EQUAL elevation

Contour
interval

→ difference b/t 2 side-by-side contour lines
→ i.e. Represents line of elevation

Index
contours

→ Contour lines Labeled with a number (line is usually darker).

→ every 5th line

Contour
rules

→ Contour lines Never touch
→ exceptions → cliff or Caves

NOTES CONTINUE ON OTHER SIDE



Topic/Objective CHAPTER:

NAME:

DATE

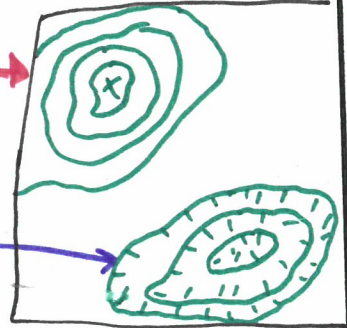
Cue: Review:

Thoughts: Main Idea

NOTE Taking AREA:

Contour
Hills &
depressions

hills (Mt.) are closed off →

Depression has hachures or
short lines @ Right angles to the
contour line.

contour
Streams
"V"
shape

→ Contour lines form a "V"-shape
and point in the direction of the
Stream

Contour
lines
spacing

→ Contour lines that are close
together mean steep slope.→ Contour lines that are far apart
mean gentle slope. Δ in SlopeSUMMARY:
gradient→ Δ in field value distance

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} = \frac{500\text{ft} - 420\text{ft}}{2\text{miles}}$$

$$\begin{aligned} x &= 500\text{ft} \\ y &= 420\text{ft} \end{aligned} = \frac{80\text{ft}}{2\text{miles}}$$

$$\text{Line} = 2\text{miles}$$

$$= \frac{40\text{feet}}{\text{mile}}$$



Topic/Objective CHAPTER: 2

NAME:

Latitude & Longitude

Pd: 1 2 4 5 other

By [Earth Rocks!](#)

<https://www.youtube.com/watch?v=2PIIX2YOAHo>

DATE

Essential Question

What is Latitude, Longitude?

Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

To locate ourselves on Earth's surface we use a spherical coordinate system known as latitude and longitude.

We need an origin or zero reference

We measure away from that origin in two directions

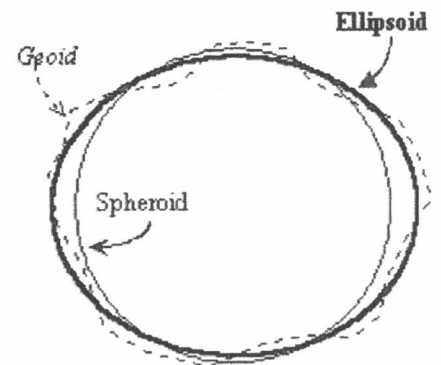
Simple graph

X-axis lying horizontally; Y-axis line perpendicularly or vertically

Both passing through the zero of the other any location on the flat page

Earth's surface isn't flat it's basically a sphere

Not even that is perfect as it's a bit egg like as well with a fatter middle and thinner edges



X-axis; Y-axis

Prime Meridian

Prime Meridian as our vertical axis

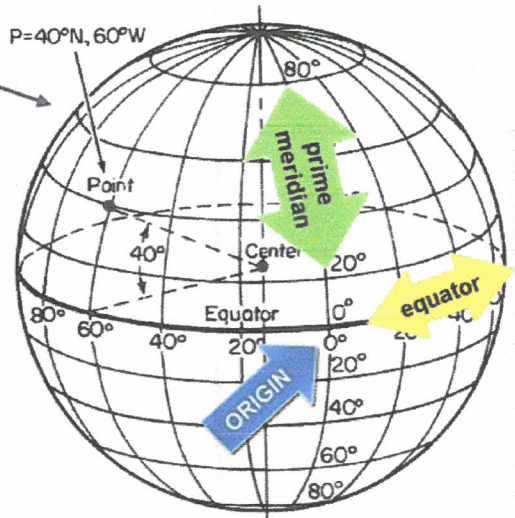
equal length lines of longitude

Run from North Pole to South Pole at intervals east and west of the Prime Meridian

Anywhere along a longitude line a point is an equal angle of a circle away from the prime meridian

international date line
(opposite side of sphere from prime meridian)

P=40°N, 60°W



Longitude

NOTES CONTINUE ON OTHER SIDE



Topic/Objective CHAPTER: 2

NAME:

Latitude & Longitude

By [Earth Rocks!](#)

<https://www.youtube.com/watch?v=2PIIX2YOAHo>

DATE

Cue: Review:
Thoughts: Main Idea

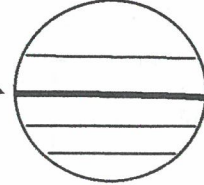
NOTE Taking AREA:

Equator is our horizontal axis

Lines of Latitude run Parallel to the Equator

run east-west or side-to-side

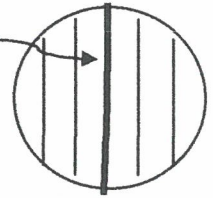
Degrees North or South of the Equator



Imaginary horizontal line 0° degrees starting line for Latitude.

Distance and degrees EAST or WEST of the Prime Meridian

Starting line for Longitude which is imaginary and runs
Through Greenwich, England.



Are lines of longitude. Each line is 15° apart = 1 hour.

1 Are longitude lines parallel?

- a. Yes
- b. No

2 Do longitude lines run pole to pole?

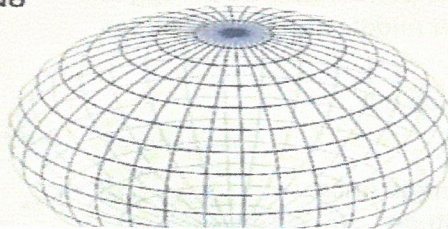
- a. Yes
- b. No

3 Are longitude lines roughly the same circumference – all of them?

- a. Yes
- b. No

4 Would a circle cut along a longitude line cut through the center of the Earth?

- a. Yes
- b. No



5 Which of the following is **NOT** true for longitude?

- a. Runs north and south
- b. Describes location east and west of the prime meridian
- c. Could have a value such as this: 145 E
- d. Are separated by the greatest distance at the equator.
- e. Are parallel

6 Which of the following is **NOT** true for latitude?

- a. Runs east and west
- b. Describes location north or south of the equator
- c. Could have a value such as this: 145 N
- d. Are equidistant
- e. Are parallel

SUMMARY:

1st SET key: 1) B 2) A

2nd SET key: 1) E 2) C

3) A 4) A



Topic/Objective CHAPTER: 2

NAME: Mr. Smith

Mapping

Pd: 1 (3) 4 5 other

DATE 8-23-23

Essential Question

What is Latitude & Longitude video

Cue: Review:

Thoughts: Main Idea

NOTE Taking AREA:

These:

Lines form an invisible grid over the earth.

Latitude

→ lines of parallel (//) that circle from east to west

→ Same distance apart ~ 69 miles

$1^\circ = 60 \text{ minutes}$; $1^{\text{min}} = 60^{\text{seconds}}$

Equator

→ Lies @ 0 degrees halfway ^{Between} b/t North and South Poles.

Tropic of Cancer

Tropic of Capricorn

} Lies $23\frac{1}{2}^\circ$ { North of the equator
South of the equator

Tropics

→ Area b/t ~~the~~ Cancer & Capricorn

→ Area is hot weather, heavy rainfall and dense Jungles.

NOTES CONTINUE ON OTHER SIDE



Topic/Objective CHAPTER:

NAME:

DATE

Cue: Review:

Thoughts: Main Idea

NOTE Taking AREA:

Arctic
Circle

Antarctic
Circle

} $66\frac{1}{2}^{\circ}$ { North of Tropic of Cancer
South of Tropic of Capricorn

This Area has 4 distinct Seasons

Longitude.

↳ Called lines of Meridians
↳ measured same way but NOT
equidistant to each other

SUMMARY:



Topic/Objective CHAPTER: 2.2

NAME:

Maps & Projections

Pd: 1 2 4 5 other

DATE

Essential Question

What is a Map & the 5 elements of a Map

Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

Maps

National Geographic defines maps as:
↳ is a symbolic representation of selected characteristics of a place, usually drawn on a flat surface.

↳ information about the world in a simple visual way.

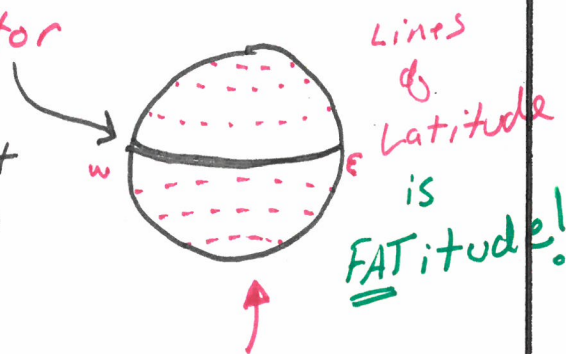
↳ come in all shapes & sizes

Latitude

↳ distance in degrees either North or South of the equator

equator

↳ an imaginary line that circles the $\oplus$ $\div$ it into 2 ~~parts~~ ^{earth} hemispheres.



↳ Run EAST & WEST (see diagram)

NOTES CONTINUE ON OTHER SIDE



Topic/Objective CHAPTER:

NAME:

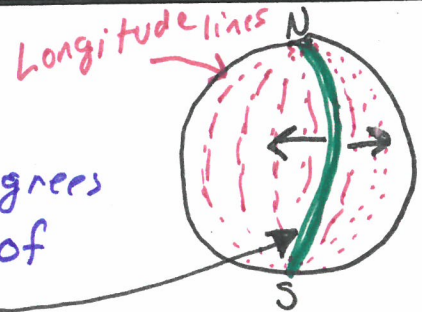
DATE

Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

Longitude

↳ refers to distance in degrees
either EAST & WEST of
the Prime Meridian



Prime
Meridian

↳ 0° Line Running North & South of the poles
↳ 1884 Astronomers decided to start a
line near a small town in London
called: Greenwich, England.

International
Date line

180° meridian transition line for
Calendar days
west - advance East - go back
In the middle of the ocean

Time Zones

24 time zones
3 time zones on the west coast
One hour earlier if you go west

SUMMARY:

1° = 111 km

15° = 1 hour of time



Topic/Objective CHAPTER: 2

NAME:

Mapping

Pd: 1 3 4 5 other

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Essential Question

What are ^{the} 5 Essential Elements ^{of a} map?

Cue/Review:

Thoughts: Main Ideas

NOTE Taking AREA:

5 elements
areCartography is the study of
map making.

① Title

in the center, a short summary of map.

Boarders →

2. Date of
map

when map was made

3. Legend or
Keyshows symbols in the corner to
explain symbolization."If" on the map it needs to be in
the Key.4. Scale &
Projectionsmeasures distance on map to distance
in real world.Type of projections on which a map
was drawn.

* See other side for different types

(Compass)
5. Directionsnormally shown on a map by means of
~~the~~ the Geographic Grid.

NOTES CONTINUE ON OTHER SIDE

"Lat & Long"

North Arrow.



Topic/Objective CHAPTER:

NAME:

DATE

Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

Types of Maps. video.

~~Physical~~ Physical Map.

↳ Natural features

Political map

↳ shows human boundaries
↳ states, counties, county

Special Interest Maps.

↳ show info on the map by color, Images, or skewing the map.

Road map i.e.

types of Scales

↳ 3 Basic types of Scales

Graphic

fractional

Verbal

↳ consists of a line the

↳ expresses distance as a ratio

↳ expresses distance

SUMMARY:

represents a certain unit of distance

as a statement

i.e. — = 5 km

i.e. 1:63,500

i.e.

1 cm = 1 km