

Year 6 Topic: Extreme Earth Activity Summer 2, Week 6

L.O. To identify the position and significance of latitude, longitude and the Equator.

Big Question: How can the latitude and longitude coordinates be used to locate places?

What is latitude and longitude?

<https://www.bbc.co.uk/bitesize/topics/zvsfr82/articles/zd4rmfr#:~:text=To%20find%20out%20how%20far,the%20Earth%20to%20the%20bottom.>

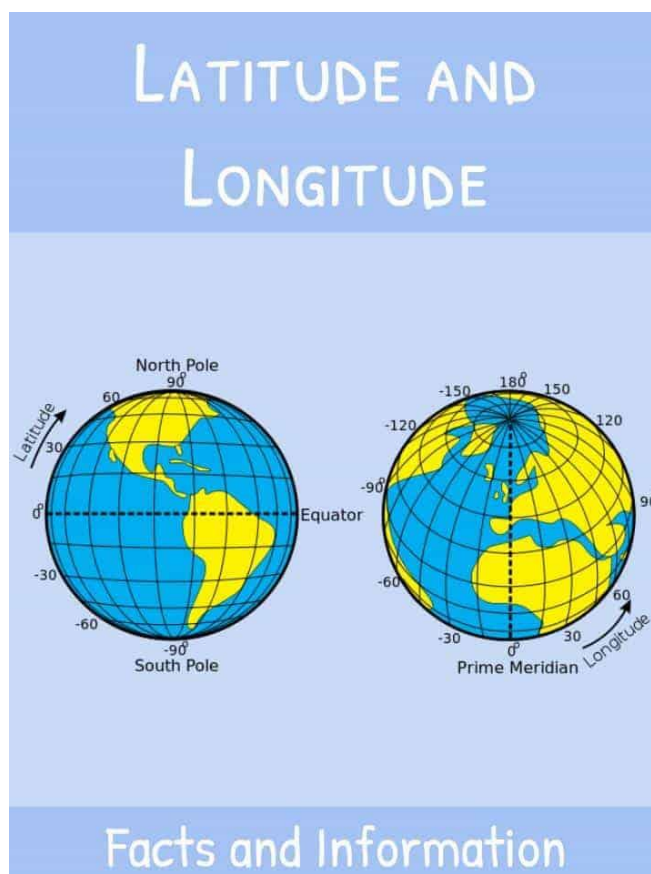
To find out how far **north or south** a place is, lines of **latitude** are used. These lines run parallel to the Equator.

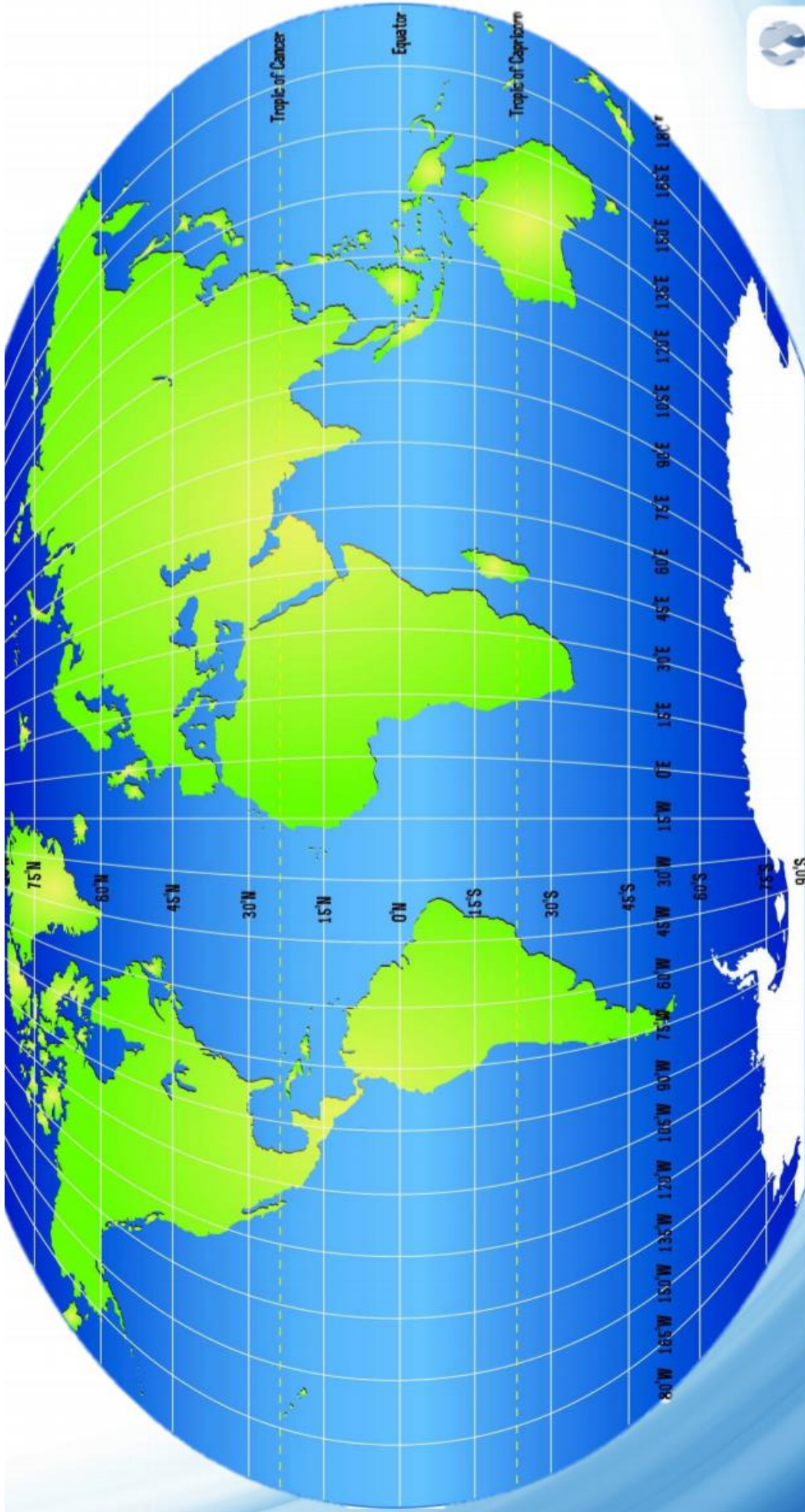
To find out how far **east or west** a place is, lines of **longitude** are used. These lines run from the top of the Earth to the bottom.

Task 1: Use a dark coloured pen to locate at least 10 of the earthquakes on the world map using the latitude and longitude coordinates.

Success Criteria

- Read the coordinate accurately
- Locate coordinate in the order they are written
- Use a ruler for accuracy
- Make clear which coordinates match which earthquake





Can you locate these famous earthquakes on this world map using their latitude and longitude co-ordinates?

2011 Tohoku	32°N 142°E	1985 Mexico City	18°N 102°W	1908 Messina	38°N 15°E
2011 Christchurch	43°S 172°E	1976 Tangshan	40°N 118°E	1906 San Francisco	37°N 122°W
2010 Haiti	18°N 72°W	1964 Alaska	61°N 147°W	1755 Lisbon	36°N 11°W
2010 Chile	32°S 70°W	1960 Valdivia	38°S 73°W	1556 Shaanxi	34°N 109°E
2004 Indian Ocean	3°N 95°E	1952 Kamchatka	53°N 160°E	1138 Aleppo	36°N 37°E
2001 Gujarat	23°N 70°E	1923 Great Kanto	34°N 139°E	856 Damghan	36°N 54°E

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L.O. To develop knowledge and understanding of life for people situated by an earthquake.

Big Question: What guidance is given on how to respond to an earthquake?

Task 1: Look at these posters on what to do before, during and after an Earthquake. Add information to your table below on how best to respond at each point.

First, Protect Yourself **Wait for the shaking to stop**

Quickly move to a place where you will be protected from falling objects and furniture.

If you panic, you may get injured. Pay attention to shattered glass and other hazardous objects.

What should we do when an earthquake occurs?

Imagine what you should do before because making the right decision is difficult in a sudden situation.

Turn it off after the shaking stops. Open doors and windows after the shaking stops. If you are outdoors, you may get injured by falling roof tiles or collapsed wall.

Check for fire hazards Secure an exit Stay clear of glass or walls

BEFORE EARTHQUAKE

- KNOW THE HAZARDS.** Familiarize yourself with earthquake hazards in your area.
- KNOW THE EVACUATION AREA.** Check the nearest route going to identified evacuation area.
- PREPARE YOUR HOUSE OR WORKPLACE.**
- PREPARE AN EMERGENCY SUPPLY KIT.** Make it accessible at all times.
- LEARN TO USE** the first aid kit, fire extinguishers, alarms, switching off waterlines, gas tanks, and circuit breaker.
- PARTICIPATE DURING DRILLS.** Regularly practice the evacuation procedure.

WHAT TO DO DURING AN EARTHQUAKE

WHEN INSIDE A BUILDING, KEEP CALM AND DO THE:

DUCK COVER HOLD

DUCK AND LOOK FOR COVER UNDER A STEADY DESK ONTO IT UNTIL THE SHAKING STOPS

STAY AWAY FROM:

WINDOWS, SHELVES, AND HEAVY OBJECTS THAT MIGHT BREAK OR TOPPLE OVER

WAIT FOR THE SHAKING TO STOP, THEN EXIT THE BUILDING THEN MOVE TO DESIGNATED EVACUATION AREA

BAGUI CITY guide

AFTER EARTHQUAKE

- EVACUATE.** As soon as the shaking stops, take the fastest and safest way out.
- EXPECT AFTERSHOCKS.**
- BE UPDATED.** Monitor the situation from the radio.
- PUT-OUT SMALL FIRES USING EXTINGUISHER.**
- CHECK YOURSELF AND OTHERS FOR INJURIES.**

After an Earthquake

Do not use Match-sticks, candle or Burners

Check any type of leakage of gas or water; try to stop it. Close all the valves of gas and water pipeline

Switch off all electrical appliances.

Open all the windows for giving passage to dust or leakage gas to get out of the building. Beware from the glasses of windows and doors.

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Click here for more information:

<https://www.youtube.com/watch?v=d08QUmxzdKU>

<https://www.weatherwizkids.com/weather-safety-earthquake.htm>

Before an earthquake	
During an earthquake	
After an earthquake	

Task 3:

Here is a list of some of the world's most earthquake-prone countries:

- China
- Indonesia. ...
- Iran. ...
- Turkey. ...
- Japan. ...
- Peru. ...
- United States. ...
- Italy.

Imagine you live in one of the above countries.

Create a survival kit of items that you would pack in preparation for an earthquake. You can draw or write each item, giving an explanation as to why this item would be useful.

