

# Study Guide- Science 6<sup>th</sup> Grade

1. Define:
  - a. Longitude: is the distance in degrees east or west of the prime meridian.
  - b. Latitude: is the distance in degrees north or south of the equator.
  - c. Map view: map drawn as if looking down on an area from above Earth's surface.
  - d. Profile view: map drawn showing a vertical section of the ground.
  - e. Map legend: lists all the symbols used on the map and explain what each symbol means.
  - f. Topographic map: uses lines of equal elevation to show the shape of Earth's surface.
  - g. Contour lines: lines drawn on maps to join points of equal elevation.
  - h. Geologic map: represent the geology of an area.
  - i. Geologic formation: is a 3-d body, or volume, of a certain kind of rock of a given age range.
  - j. Contact: place where two rock formations occur next to each other.
  - k. Geology: the study of Earth.
2. Distinguish between physical and cultural features. Define each type of feature and give examples of each one.

Physical features: are nature's unchanged formations, like mountains and lakes, etc.  
Cultural features: are man made constructions, like monuments, bridges, and buildings.
3. What do the contour lines show? What does it tell you about the slope?

In a map, contour lines show the elevations of an area. When the lines are close together, the slope is steeper. When the lines are spread out, it shows a valley, or a surface where the elevation does not change dramatically.
4. Identify four ways people use geologic information  
There is a lot of usage:
  - Geologist can predict the geologic age of an area.
  - They can determine the location of an ore.
  - They can assess the fertility of an area.
  - They can predict Earth's layers movement.
5. Know what the map scale means.

Map scale tells the relationship of an area/object from a map to real life.
6. How many seconds are there in one degree of latitude?  
3600 seconds
7. Do these coordinates represent an actual location on Earth's surface? Explain.
  - a. 135°25'13" S longitude by 48°13'44" latitude

No it is not a real location since longitude could only be West and East.
8. How would the contour interval on gently sloping land be different from the contour interval on a steep slope?

Gently sloping contour interval are spread out, on a steep slope, the contour intervals are close together.
9. You are looking at a map with a scale of 1:100. What does this mean?

One unit on a map equals 100 in real life.
10. Where does the 0° prime meridian located?

Prime meridian is located in Greenwich, England.
11. What is a fault?

Rock formation that is broken up and moved.
12. How will you use a scale?

# Science Study Guide For 6th Grade

**M Planty**



## **Science Study Guide For 6th Grade:**

## **Science Study Guide For 6th Grade** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Science Study Guide For 6th Grade**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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medication dose mg administered weight in kg

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stock required stock strength volume weight  $0.08 \text{ mg} \times 2 \text{ ml} = 0.16 \text{ mg}$   $0.16 \text{ mg} \times 25 \text{ mg}$

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web example a pediatrician orders a dose of 15 mg of a drug per kilogram of body weight 15 mg/kg 15 mg of drug 300 mg of drug should be given as the dose 20 kg weight  $\times 1 \text{ kg} = 2$  calculate volume tablets solution using a standard pharmaceutical math calculation such as desired over have multiplied by quantity or ratio and proportion see

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web 1g = 1000mg 1mg = 1000mcg therefore to convert grams to milligrams you multiply by 1000 milligrams to micrograms multiply by 1000 conversely to change from micrograms to milligrams divide by 1000 and milligrams to grams divide by 1000 thus to multiply by 1000 the decimal point must be moved 3 places to the right example

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