

8th Grade Power Standards

(Revised 2017)

1. I can use the correct equipment to make measurements.
 - a. I can use an electronic scale to find mass.
 - b. I can use a triple beam balance to find mass.
 - c. I can find volume using $b \times w \times h$ or using glassware.
 - d. I can calculate density.
2. I know our Earth is composed of interacting layers.
 - a. I can describe each layer.
 - b. I know that geological events like volcanic eruptions and earthquakes are the result from the movement of tectonic plates.
 - c. Weathering, erosion and glacial activity are just some of the things that have shaped Minnesota's landscape and given it a wealth of geological resources.
 - d. I can interpret rock layers.
3. I can identify 13 common minerals by planes of cleavage, streak and misc. other properties.
4. I can identify and classify 15 common rocks.
5. I know that the surface of the Earth is constantly changing through weathering and erosion and that humans contribute to this change.
6. I can model how combination of the Earth's tilted axis and revolution around the sun causes the progression of seasons.
7. I can model the Earth's rotation and tell how it causes days.
8. I can describe how the moon changes phase and tell why.
9. I know that the sun is a medium sized yellow star. It is at the center of the

solar system, which is composed of planets, moons, asteroids, comets and other objects.

- a. I know the sun supplies the Earth with its energy.
- b. I can describe moons, asteroids and comets.

10. Humidity, temperature, wind strength and direction, and air pressure contribute to the weather.

- a. I can measure temperature.
- b. I can describe wind direction.
- c. I can read a barometer.
- d. I can describe the motions of low and high-pressure systems.
- e. Using a map from the Internet or newspaper I can predict the weather with reasonable accuracy.
- f. I can describe the water cycle.