

Created by Marie @ The Homeschool Daily

# Brainstorm as many words or phrases that you can think of when you hear the word, "Meteorology."



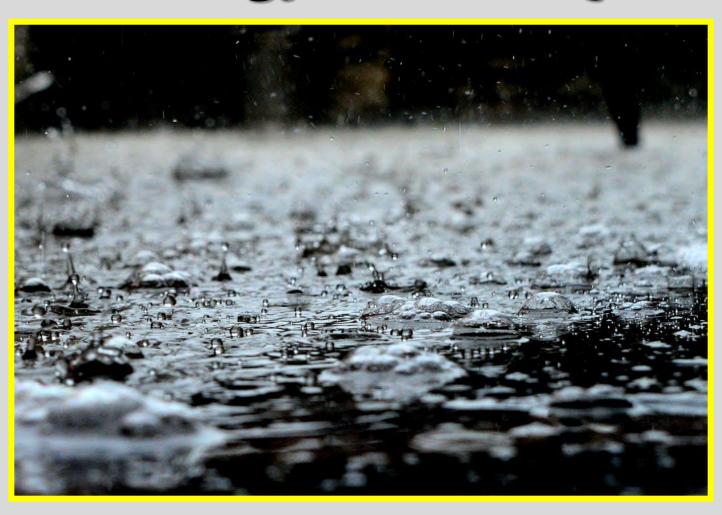
## What words did you brainstorm for the term, "Meteorology?"

- Weather
- Climate
- Tornadoes
- · Hurricanes
- Humidity
- · Air pressure
- Precipitation
- Temperature
- Wind

- Thunderstorms
- Clouds
- · Air masses
- · Cold front
- · Warm front
- Altitude
- Atmosphere
- · Heat transfer
- · Greenhouse effect

Did you think of any of these words?

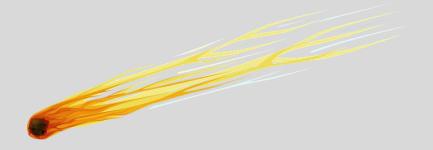
### Let's look at 10 common Meteorology Misconceptions



#### Misconception

**Truth** 

 Meteorology is the study of meteors.



#### Misconception

 Meteorology is the study of meteors.



#### **Truth**

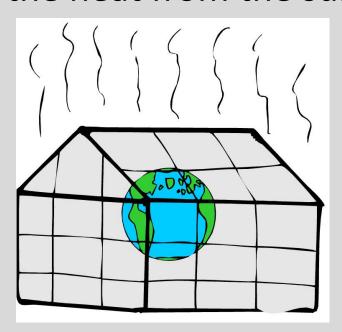
 Meteorology is the study of weather.



#### Misconception

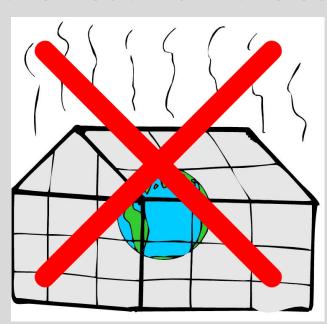
**Truth** 

• Our atmosphere traps the heat from the sun.



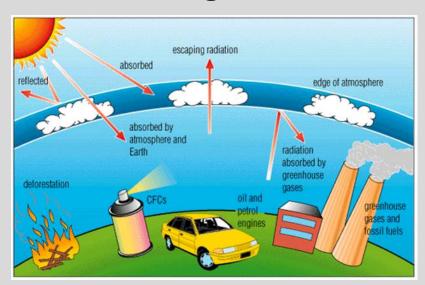
#### Misconception

 Our atmosphere traps the heat from the sun.



#### **Truth**

 Our atmosphere absorbs the radiation from the sun, heating the Earth.



#### Misconception

**Truth** 

 Rain clouds move around the Earth and eventually come back



#### Misconception

 Rain clouds move around the Earth and eventually come back



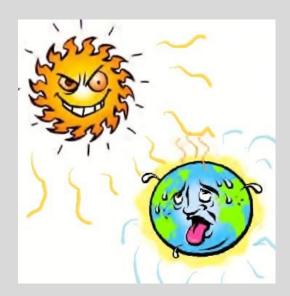
#### **Truth**

 Rain clouds form as water droplets condense into vapor in the atmosphere. When the atmosphere can no longer support the weight of the droplets, they fall as rain.

#### Misconception

Truth

 Seasons are caused when the Earth moves closer to and farther from the Sun.



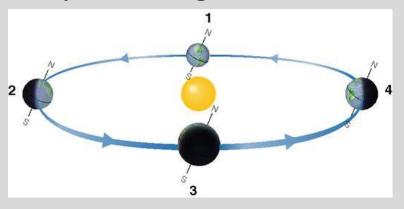
#### Misconception

 Seasons are caused when the Earth moves closer to and farther from the Sun.



#### **Truth**

 Seasons are caused by the tilt of the Earth on its axis as it rotates around the Sun. This tilt changes the angle of the Sun's rays striking the Earth.



#### Misconception

 We should not be concerned with events that occur on the other side of the planet because they have no effect on us.



#### **Truth**

#### Misconception

 We should not be concerned with events that occur on the other side of the planet because they have no effect on us.



#### **Truth**

 Events, such as volcanic eruptions can have global effects on weather patterns and climate throughout the world.



#### Misconception

The air around the top
 of a very high mountain
 is exactly the same as
 the air around the
 bottom of the mountain.



#### **Truth**

#### Misconception

The air around the top
 of a very high mountain
 is exactly the same as
 the air around the
 bottom of the mountain.



#### **Truth**

 The properties of the atmosphere, such as pressure and temperature, change as elevation changes.



#### Misconception

 Only clouds that produce rain contain water.



#### **Truth**

#### Misconception

 Only clouds that produce rain contain water.



#### **Truth**

 All clouds are condensed water molecules.



#### Misconception

**Truth** 

 The oceans have no effect on our climate.



#### Misconception

 The oceans have no effect on our climate.



#### **Truth**

 Because the oceans are such large bodies of water, they hold a massive amount of heat. Therefore, the oceans have a great impact on climates.



#### Misconception

**Truth** 

• The Sun's rays hit the Earth the same throughout the year.



#### Misconception

• The Sun's rays hit the Earth the same throughout the year.



#### **Truth**

 The angle of the Sun's rays striking the Earth changes throughout the year. This is because the Earth rotates on a tilted axis and revolves around the Sun causing our seasons.

#### Misconception

Truth

 Clouds are only found in the sky.



#### Misconception

 Clouds are only found in the sky.

#### **Truth**

 Clouds can form very close to the surface of the Earth (fog).



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"Hast thou not known? hast thou not heard, *that* the everlasting God, the LORD, the Creator of the ends of the earth, fainteth not, neither is weary? *there is* no searching of his understanding." Isaiah 40: 28

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#### Marie

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