

# Solar Wind Quiz

Based on what you have learned so far, answer these multiple choice and true/false questions on the solar wind.



Image courtesy of NASA

Wind on earth is moving air, made mostly of ...

- A) nitrogen and oxygen
- B) hydrogen and helium
- C) water and methane
- D) pollen and pixie dust

The highest wind speed ever recorded on Earth was

- A) 123 mph
- B) 231 mph
- C) 321 mph
- D) 3210 mph

The solar wind is composed  
of...

- A) hydrogen and helium molecules
- B) protons, electrons and ions
- C) fire and flames
- D) nitrogen and oxygen

# How fast IS that?

The solar wind averages 300 km/sec.  
How fast is that in miles per hour?

- A) 55 mph
- B) 300 mph
- C) 22,000 mph
- D) 670,000 mph

# True or False?

The density of the solar wind is usually around 1 proton per  $\text{cm}^3$ . That is significantly lower than the density of air.

# True or False?

Even traveling at 300 km/sec, the solar wind would NOT knock you over.

The solar wind has the greatest effect on Earth's .....

A) magnetic field

B) core

C) oceans

D) winds

# The solar wind can cause.....

- A) Auroras
- B) Satellite disruptions
- C) Power failures
- D) Radiation expose to astronauts
- E) All of the above

# What does the solar wind carry with it?

- A) Sunspots
- B) Heat
- C) Light
- D) Sun's magnetic field