

# “Force 5” Pretest

Please put your answer to the left of the question number.

Put your school ID or make up for yourself a five-or six-digit number: \_\_\_\_\_

**(Please remember it; we will not save your personal information)**

(please use the same code for both shows, pre and post test)

Don't worry if you can't answer these now; this just helps us know if you learn from the show.

What grade are you in? \_\_\_\_ Boy or girl? \_\_\_\_ Teacher's name \_\_\_\_\_ Hour: \_\_\_\_

- \_\_\_\_\_ 1. Which is the largest in size?
  - a. Force 5 Hurricane
  - b. Force 5 Tornado
  - c. Force 5 Space Storm
  - d. Force 5 Dust Storm
- \_\_\_\_\_ 2. Which year had the most Atlantic hurricanes, including Katrina and Rita?
  - a. 1995
  - b. 2000
  - c. 2005
  - d. 2010
- \_\_\_\_\_ 3. The major hurricane which devastated Galveston occurred in
  - a. 1900
  - b. 1920
  - c. 1950
  - d. 1980
- \_\_\_\_\_ 4. Which is generally the most deadly in a hurricane?
  - a. the wind
  - b. the water in a storm surge
  - c. the loss of electricity
  - d. the hail
- \_\_\_\_\_ 5. Tornadoes are generally most common in
  - a. the central US
  - b. Florida and Georgia
  - c. New England
  - d. California
- \_\_\_\_\_ 6. The energy source for the hurricane is
  - a. the land temperature
  - b. the ocean waves
  - c. the ocean temperature
  - d. the tides
- \_\_\_\_\_ 7. Which of these is the **worst** place to be in a tornado?
  - a. a storm shelter
  - b. a basement
  - c. an inner closet or bathroom
  - d. the attic
- \_\_\_\_\_ 8. What role do HAM radio operators perform in a tornado?
  - a. going door to door to warn citizens of the dangers
  - b. analyzing the upper atmosphere
  - c. monitoring tornado locations
  - d. using radio waves to reduce storm severity
- \_\_\_\_\_ 9. Which one of these is NOT commonly observed before tornadoes?
  - a. hail and thunderstorm
  - b. wall or "anvil" cloud
  - c. green sky
  - d. snow flurries

- \_\_\_\_\_ 10. Energy is released explosively on the Sun in a process called a
- Solar Flare
  - Sunspot
  - Prominence
  - Filament
- \_\_\_\_\_ 11. A huge blast of plasma that is released from the Sun is called a
- FE (Flare Explosion)
  - CME (Coronal Mass Ejection)
  - Solar wind
  - CEE (Chromosphere Energetic Eruption)
- \_\_\_\_\_ 12. When a blast of plasma reaches the Earth it can cause
- Bright auroras
  - Electrical blackouts
  - Failures of satellites
  - All of the above.
- \_\_\_\_\_ 13. We are protected from the energetic particles from the Sun by our
- Magnetic Field
  - Atmosphere
  - Both Magnetic Field and Atmosphere
  - Neither Magnetic Field nor Atmosphere
- \_\_\_\_\_ 14. When humans leave Earth to travel in space, which might still harm them?
- Hurricanes
  - Space Storms
  - Tornadoes
  - Floods
- \_\_\_\_\_ 15. How often do you visit a museum or planetarium?
- Often (every month or two)
  - Sometimes (every year or two)
  - Only with school or other groups
  - Rarely or Never
16. What would be your “dream job” if you could do anything in the world?

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17. What is your most likely career?

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*Thank you for your participation!!*

## **“Force 5” Pretest ANSWERS**

- C   1. Which is the largest in size?
- C   2. Which year had the most Atlantic hurricanes, including Katrina and Rita?
- A   3. The major hurricane which devastated Galveston occurred in
- B   4. Which is generally the most deadly in a hurricane?
- B   5. Tornadoes are generally most common in
- C   6. The energy source for the hurricane is
- D   7. Which of these is the worst place to be in a tornado?
- C   8. What role do HAM radio operators perform in a tornado?
- D   9. Which one of these is NOT commonly observed before tornadoes?
- A   10. Energy is released explosively on the Sun in a process called a
- B   11. A huge blast of plasma that is released from the Sun is called a
- D   12. When a blast of plasma reaches the Earth it can cause
- C   13. We are protected from the energetic particles from the Sun by our
- B   14. When humans leave Earth to travel in space, which might still harm them?

# “Force 5” Post-Test

Please put your answer to the left of the question number.

Put here the a five-or six-digit number you used on the pretest: \_\_\_\_\_  
(please use the same code for both shows, pre and post test)

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- \_\_\_\_\_ 12. When a blast of plasma reaches the Earth it can cause
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  - b. Electrical blackouts
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- \_\_\_\_\_ 13. We are protected from the energetic particles from the Sun by our
- a. Magnetic Field
  - b. Atmosphere
  - c. Both Magnetic Field and Atmosphere
  - d. Neither Magnetic Field nor Atmosphere

- \_\_\_\_\_ 14. When humans leave Earth to travel in space, which might still harm them?
- a. Hurricanes
  - b. Space Storms
  - c. Tornadoes
  - d. Floods

**Post-Test Additional Questions**

Did you watch this show in a dome? \_\_\_\_\_ or on a regular TV projection? \_\_\_\_\_

Please write the most interesting thing that you learned from the show:

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Check all the statements that you agree with:

- \_\_\_\_\_ 1. learning in the dome is more fun than watching on a TV
- \_\_\_\_\_ 2. it is easier to learn in a dome than on a TV
- \_\_\_\_\_ 3. a dome show is more difficult to follow than one on a TV
- \_\_\_\_\_ 4. there are things which are easier to understand in a dome than on a TV
- \_\_\_\_\_ 5. this show has made me want to learn more about weather
- \_\_\_\_\_ 6. this show has made me want to learn more about space weather
- \_\_\_\_\_ 7. this show has encouraged me to become a scientist

Any other comments, suggestions, or other movies you'd like to see in a dome?

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*Thank you for your time! We hope you enjoyed the show!*