FLPS
Science

Name		

Science Study Guide Semester 2

Directions: On a separate sheet of paper define the following words using complete sentences.

- 1. Thunderstorm
- 2. Air mass thunderstorm
- 3. Sea breeze thunderstorms
- 4. Frontal thunderstorms
- 5. Supercell
- 6. Downbursts
- 7. Fujita tornado intensity scale
- 8. Tropical cyclones
- 9. Tornado
- 10. Hurricane
- **11.** Eye
- 12. Eyewall
- 13. Saffir-Simpson hurricane scale
- 14. Storm surge
- 15. Droughts
- 16. Heat waves
- 17. Cold wave
- 18. Wind chill index
- 19. Thunderstorms
- 20. Typhoon
- 21. Blizzard
- 22. Wind
- 23. Stepped leader
- 24. Spider lightning
- 25. Return stroke

Directions: On a separate sheet of paper answer the following questions using complete sentences.

- 1. Describe a damaging thunderstorm wind.
- 2. During what stage of a tropical cyclone does an eyewall develop?
- 3. Describe the development of hail.
- 4. What weather hazards involves a lack of moisture?
- 5. What factor makes a thunderstorm severe?
- 6. Which oceans would experience a tropical cyclone?
- 7. Compare and contrast a hurricane and a tornado.
- 8. What would work against the development of a thunderstorm?
- 9. Flooding is most likely to take place because of rains associated with what type of front?
- 10. What is the first stage of a lightning bolt?
- 11. What process does a heat wave involve a high pressure system that causes air to sink and warm?
- 12. What percentage of tornadoes are classified as an F4 or F5 on the Fujita tornado scale?
- 13. Which way do hurricanes rotate in the Southern Hemisphere?
- 14. What weather events are cold waves most often associated with?
- 15. Why are cold fronts more likely to produce severe thunderstorms than warm fronts?
- 16. What are extremely powerful thunderstorms that develop intense, rotating updrafts called?
- 17. What is it called when electricity is caused by a rapid rush of air in a cumulonimbus cloud?
- 18. What are violent downdrafts that are concentrated in one area called?
- 19. What are the powerful downdrafts that affect an area of less than 3 km called
- 20. What is precipitation in the form of lumps or balls of ice called?
- 21. What are the intense updrafts and downdrafts that characterize severe thunderstorms the result of?
- 22. Why does flooding often occur?
- 23. Hail forms in part because of the presence of what?
- 24. What is a tornado?
- 25. Describe how a tornado forms.
- 26. During what time of the year do most violent tornadoes form? Explain why.
- 27. Where in the United States do many tornadoes occur? Explain why.
- 28. The Fujita Scale classifies tornadoes according to what criteria?
- 29. What is the wind speed of the most violent tornadoes on the scale?
- 30. How long would an average F3 tornado last?