



Veritas Classical Schools
Science
Assignment Sheet
Week 17

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Our Weather and Water Week 17

Lesson 1: A Christian View of Weather

Read Pages 8-9

Also read the first 8 chapters of Genesis in order to answer part B of questions 1-3.

1. A. Describe the first major event in history that affected our planet. (2 sentences)
B. Give the book and chapter(s) of the Bible where this event is described.
2. A. Describe the second major event in history that affected our planet. (2 sentences)
B. Give the book and chapter(s) of the Bible where this event is described.
3. A. Describe the third major event in history that affected our planet.
B. Give the book and chapter(s) of the Bible where this event is described.
4. If one views earth and its weather from a Christian perspective, what five things will we know?
(Put each "thing" on a separate line.)

Lesson 2: Structure of the Atmosphere (Warning: Extra long lesson!)

Read Pages 10-12

1. What is atmosphere?
2. What is the composition of dry air near the earth's surface?
3. What gases are included in the "other gases" category of the atmosphere ?
4. Describe nitrogen. Give its 2 roles in the earth's atmosphere. (3 sentences total)
5. What would be one negative effect of the oxygen concentration being higher than 21%?

Copy and complete:

6. The earth's atmosphere insulates the earth from the extreme temperatures of space. In other words the presence of atmosphere it keeps the earth's surface cooler in the day and warmer at night.

Name three other ways (from page 10, last paragraph) that our atmosphere benefits us.

(Each way is a separate line and has two sentences.)

7. Name the 5 main layers of the atmosphere beginning with the layer closest to the earth's surface.

For 9-12 the facts should NOT include location or thickness.

8. Give 3 facts about the troposphere.
9. Give 3 facts about the stratosphere.
10. Give two facts about the mesosphere. *(Second fact should be how cold it gets.)*
11. Give two facts about the thermosphere.
12. What happens in the ionosphere?
13. What is the outermost layer of the atmosphere called? What is located in this layer?
14. Describe the magnetosphere.
15. A. When the charged particles from the magnetosphere escape to a lower layer of the atmosphere and collide with other particles, what happens?

B. What event that occurs on the sun makes these lights more visible?
16. Give the Latin name for the Northern lights and where they are seen.
17. Give the Latin name for the Southern lights and where they are seen.