



**Basics of the Atmosphere
Test Summary Report**

03/09/2015

QUESTION BANK	# OF QUESTIONS	POINTS
Chapter 17—The Atmosphere: Structure and Temperature	12	12
THE ATMOSPHERE	7	7
Not associated with a question bank	1	1
TOTAL	20	20

QUESTION TYPE	# OF QUESTIONS	POINTS
Multiple Choice	20	20
TOTAL	20	20

LEARNING OBJECTIVE	# OF QUESTIONS
17.1 Compare the major components of the Earth's atmosphere. Permanent gases: Nitrogen, Oxygen, Argon - pg. 477, Variable gases: Ozone, Water Vapor, Carbon Dioxide - pg. 477-478.	3
17.1 Describe the characteristics of each atmospheric layer. Ozone layer and UV radiation pg. 478	1
17.1 Explain how altitude affects air pressure and density. Pressure and Temperature Changes pg. 479	1
17.1 Explain why seasonal changes occur: summer solstice, p. 482; winter solstice, p. 482; autumnal equinox, p. 482; spring equinox, p. 482	3
17.1 Understand the atmosphere can be divided vertically into four layers based on temperature. troposphere, p. 480; stratosphere, p. 480; mesosphere, p. 480; thermosphere, p. 480;	4
17.2 Demonstrate how objects can absorb, transmit, scatter, or reflect radiation that strikes them: reflection, p. 486; scattering, p. 486;	1
17.2 Describe how the atmosphere is affected by heat transfer mechanisms: green house effect, p. 487	1
17.2 Describe how the atmosphere is affected by heat transfer mechanisms: heat-absorbing gases in the lower atmosphere pg. 487	1
17.2 List the three major mechanisms of heat transfer; - heat, p. 483; temperature, p. 483; conduction, p. 483; convection, p. 484; radiation,	3
17.3 Compare and contrast the heating of land and water: pg. 489	1
17.3 Explain why some clouds reflect a portion of sunlight back to space: albedo, p. 492;	1



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STATE STANDARD	# OF QUESTIONS
6SC-P2.P03	3
6SC-P6.P04	1
6SC-P7.P02	1
GR6.S6.C1.PO.1	6

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