

Scientific Revolution & Enlightenment Study Guide

CHAPTER 6

Section 1 (pg. 189-194)

- 1) What was the medieval view of the universe?
- 2) What were the causes of the Scientific Revolution?
- 3) How did the work of Brahe and Kepler support Copernicus's heliocentric theory?
- 4) What book did Galileo publish that resulted in him being brought to trial for heresy? What was the result of that trial?
- 5) What are the steps of the scientific method?
- 6) What did Francis Bacon believe scientists should do before drawing conclusions about something?
- 7) What did Descartes believe a person should use to prove something existed? What quote is Descartes famous for? What does it mean?
- 8) How does Isaac Newton describe the universe in his book, *The Mathematic Principles of Natural Philosophy*?
- 9) What did Zacharias Jannsen, Anton von Leeuwenhoek, Evangelista Torricelli, Gabriel Fahrenheit, and Anders Celsius all contribute to scientific knowledge?
- 10) How did Andreas Vesalius change people's knowledge and understanding of the human body?
- 11) What is Edward Jenner famous for? How did he develop it?

Section 2 (pg. 195-200)

- 12) What was Hobbes view of human nature? Why, according to him, is a government necessary?
- 13) What is a "social contract?"
- 14) What is John Locke's view of human nature? Why, according to him, is a government necessary?
- 15) Who are the philosophes and what five things did they believe in or advocate?
- 16) Who and what were the targets of Voltaire's criticisms? What quote is Voltaire famous for?
- 17) Why did Montesquieu admire England? What was the subject of his book, *Spirit of Laws*?
- 18) What quote is Rousseau famous for?
- 19) What was Rousseau's idea of a good government? What is meant by the term "general will?"
- 20) What similarities and difference does Rousseau have with Hobbes and Locke?
- 21) What is the legacy of the Enlightenment? Explain.

Section 3 (pg. 202-205)

- 22) How did salons help spread enlightened ideas?
- 23) How did Denis Diderot help spread enlightened ideas? How did the Catholic Church react to his publications?
- 24) Compare and contrast the baroque and neoclassical art styles.
- 25) Who were some notable musicians/composers and writers who helped change music and literature? How did they change it?
- 26) What countries did Frederick the Great, Joseph II, and Catherine the Great rule? What enlightened reforms did they make?

Section 4 (pg. 206-211)

- 27) What were the Navigation Acts, the Stamp Act, and the Tea Act? How did they impact the colonists' view of Britain?
- 28) On what date and where did the American Revolution begin?
- 29) What ideas from the Enlightenment were incorporated into the Declaration of Independence?
- 30) The assistance of what country helped the Americans with their war for independence?
- 31) Where were the British when they surrendered, ending the American Revolution?
- 32) What were some of the problems the newly formed United States experienced under the Articles of Confederation? How did that document contribute to those problems?
- 33) What Enlightenment ideas were incorporated into the US Constitution?

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James A. Schmiechen, McKay, Hilary



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imaging and beam steering using 3 microlens arrays mla is demonstrated

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david mentioned here for 1 to increase the collection of pixelated detectors please see the lenslet array sample file in the
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high quality microlens array available unmounted or in a Ø1 mount offered uncoated or broadband ar coated

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the lenses have a rectangular shape and the aspheric terms are only in one axis do you know which is the best solution for
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web lenslet arrays are modeled using the user defined surface basically the ray trace determines which segment of the array is struck then uses the local lens curvature to determine the refraction the sample source code and dll are provided as us array c and us array dll respectively

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web zemax 1 introduction microlens arrays have been applied in many electro optical and micro optical systems such as flexible light field smart phones¹ solar concentrators² data storage³ and integral imaging 3d displays⁴ etc these microlens arrays are typically composed of microlens cells arranged in a deterministic pattern⁵ the

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web i set up a hybrid model including sc source and focusing lens and nsc microlens array lenslet array 1 to generate a uniform line transversely perpendicular to beam propagation in a certain distance now i want to optimize the microlens toric and aspheric coefficient parameters to achieve the best line uniformity and smallest line width

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