Chapter 13 - Atmosphere and Climate Change

• What is the difference between weather and climate?
• What is the most important determining factor for climate?
• How does latitude affect climate?
• How is climate different in low and high latitudes?
• What is wind and how are winds generated?
• What causes atmospheric circulation?
• What does atmospheric circulation determine?
• What are the three important properties of air that affect atmospheric circulation?
• What is the coriolis effect?
• What are prevailing winds?
• What are El Nino and La Nina?
• What is topography?
• How does elevation effect climate?
• Explain how rain shadow occurs.
• How does the sun and volcanic eruptions affect climate?
• What are seasons the result of? Explain how seasons occur.
• What is the ozone layer and what does it do?
• Why is UV radiation harmful?
• What are CFCs and how do they cause ozone depletion?
• What is the ozone hole and how does the ozone hole form?
• What are the effects of the ozone hole?
• What is the Montreal Protocol?
• Explain the greenhouse effect.
• What are the greenhouse gases? Which gases account for the most heat absorption?
• What did Charles David Keeling do?
• What happens to carbon dioxide levels in the summer and winter?
• What is the overall trend of carbon dioxide levels?
• What is causing the rise in carbon dioxide levels?
• What is global warming and what is causing global warming?
• What are computer models?
• What are the consequences of global warming?
• What is the Kyoto Protocol?