

**UNIT  
4**

**The Population Explosion  
and Its Effects**

**Global Integration  
and Industrialization 8**

Note: all of the following information in addition to your reading and the videos are important.

**Chapter 8: The Population Explosion**

- Define: doubling time, and briefly explain how industrialization affected this – \_\_\_\_\_

- Briefly discuss Thomas Malthus' theory on food production and human reproduction – \_\_\_\_\_

- Briefly explain why Malthusian theory did not pan out as predicted – \_\_\_\_\_

- Describe how scientific advancements in health and medicine lowered death rates and helped lead to a population explosion in industrialized societies:

Edward Jenner and vaccines	
Sewage systems	
Louis Pasteur and pasteurization	
Joseph Lister and antiseptics	

**The Demographic Transition Model**

- Define: rate of natural increase (RNI), crude birth rate (CBR), and crude death rate (CDR) – \_\_\_\_\_

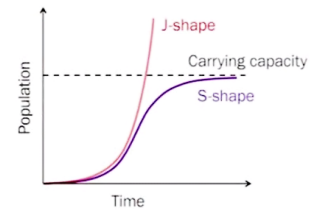
- Describe the First Stage of the Demographic Transition Model (DTM) – \_\_\_\_\_

**The Demographic Transition Model (continued)**

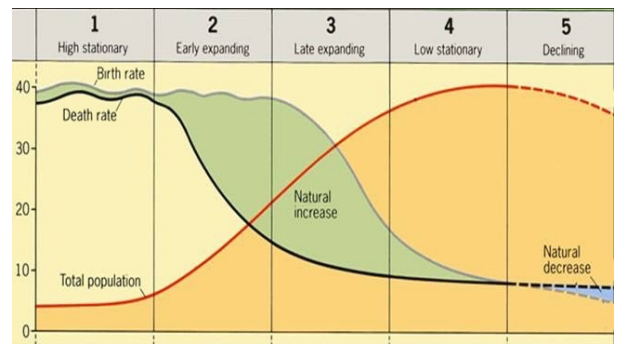
• Describe the Second Stage of the DTM and its causes – \_\_\_\_\_

• Describe the Third Stage of the DTM and its causes – \_\_\_\_\_

• Contrast the conditions leading to a J-curve with the conditions leading to an S-curve – \_\_\_\_\_



• Describe the Fourth Stage of the DTM and its causes, as well as the Fifth Stage of the DTM – \_\_\_\_\_



• Describe the massive emigration of Europeans to the Americas, Australia, New Zealand, South Africa, and elsewhere – \_\_\_\_\_

• Briefly explain what caused the Europeans to migrate in such unprecedented numbers – \_\_\_\_\_

• Contrast the European migration streams to the United States and Latin America – \_\_\_\_\_

• Describe the Russian migration eastward into Siberia – \_\_\_\_\_