**Unit 5 – Revolutions Topic 5.5 – Technology of the Industrial Age**

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| **Technology and Innovation**Human adaptation and innovation have resulted in increased efficiency, comfort, and security, and technological advances have shaped human development and interactions with both intended and unintended consequences.  |
| **Learning Objective** | **Historical Developments** | **Study Guide Notes** |
| Explain how technology shaped economic production over time.  | The development of machines, including steam engines and the internal combustion engine, made it possible to take advantage of both existing and vast newly discovered resources of energy stored in fossil fuels, specifically coal and oil. The fossil fuels revolution greatly increased the energy available to human societies.  |  |
| The “second industrial revolution” led to new methods in the production of steel, chemicals, electricity, and precision machinery during the second half of the 19th century.  |  |
| Railroads, steamships, and the telegraph made exploration, development, and communication possible in interior regions globally, which led to increased trade and migration.  |  |
| **Respond to the Learning Objective:** |