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 | Historical | Study Guide Notes |
|--------------------------|-------------------------------|-------------------|
| Objective Explain how | Developments | |
| technology | The | |
| shaped | development | |
| economic | of machines, | |
| production | including | |
| over time. | 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 | | | |
|------------------------------------|----------------------------------|--|--|--|
| | interior regions globally, which | | | |
| | led to | | | |
| | incressed | | | |
| | increased | | | |
| | trade and | | | |
| | migration. | | | |
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| Respond to the Learning Objective: | | | | |
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