

Second Industrial Revolution

Topic 4.3

1. *The first phase of the Industrial Revolution was forged from _____, powered by _____ engines, and driven by the British _____ industry.*
2. *During the second Industrial Revolution, the pace of _____ quickened as companies hired professional _____ and _____ to create new products and machinery.*
3. *The union of _____, _____, and _____ spurred economic growth.*
4. *In 1856, _____ and William Kelly developed and patented a new process for making _____ from iron.*
5. *In 1866, chemist Alfred Nobel earned a fortune when he invented a new explosive, _____.*
6. *_____ created the first electric motor. In the 1870's, inventor _____ made the first electric lightbulb.*
7. *_____ ships replaced sailing ships, and _____ building took off. In the United States, a _____ provided rail service from the Atlantic to the Pacific. Russia built the _____ Railroad.*
8. *To improve efficiency, manufacturers designed products with _____ parts. By the early 1900's, they also introduced another new method of production, the _____.*
9. *In 1887, _____ developed the first four-wheeled automobile. _____ introduced the first moving assembly line in _____, producing models that reached the breathtaking speed of _____.*
10. *In the 1890's, Italian _____ invented the radio. In 1903, _____ and _____ flew the first airplane at _____, North Carolina.*



By the late 1800's, steel quickly became the major material used in tools, bridges, and railroads. **Forging the Shaft**, 1868, by John Ferguson Weir, depicts the forging of a great shaft for the propeller of an ocean liner.