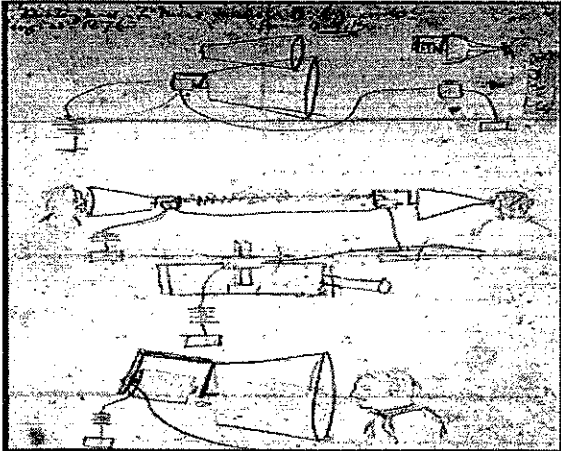


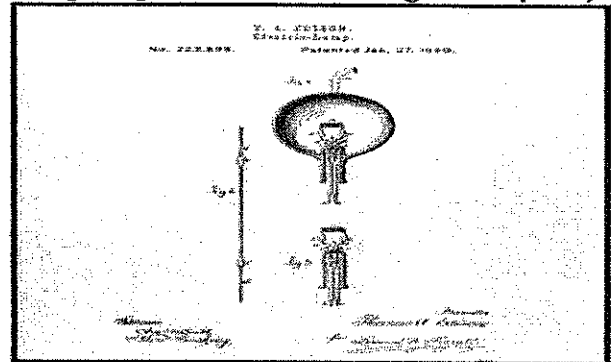
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5-3.1 Explain how the Industrial Revolution was furthered by new inventions and technologies, including new methods of mass production and transportation and the invention of the light bulb, the telegraph, and the telephone.

**Early sketches of the telephone (1876)**



**Original patent for Edison's lightbulb (1880)**



1

According to the sketches, which of the following was a difference between Alexander Graham Bell's idea of a telephone and the one's that are used today?

- a. In the early sketches, the users cannot make outward calls.
- b. In the early sketches, the users do not speak into a receiver.
- c. In the early sketches, the users do not hold the telephone with their hands.
- d. In the early sketches, the users communicate with electronic "beeps".

2

Alexander Graham Bell invented the telephone in 1876. Prior to that time, the fastest way to send a message was by:

- a. electronic mail (e-mail).
- b. pony express.
- c. postal service.
- d. telegraph.

3

Which of the following innovations made it possible for Thomas Edison to patent his incandescent light bulb in 1880?

- a. mechanical press
- b. electricity
- c. steam engine
- d. radiation

\_\_\_\_\_ 4

Thomas Edison and Alexander Graham Bell were both inventors of the late 19th century. Which of the following is true about their inventions (shown above) since that time?

- a. The inventions have become useless in the "Computer Age".
- b. The inventions are no longer in use.
- c. The inventions have not changed at all.
- d. Many improvements have been made to the inventions.

5. Which of the following inventors made important discoveries in the late 1800s and early 1900s?

- A. Bill Gates
- B. Ben Cohen
- C. Thomas Edison
- D. The Montgolfier Brothers

6. All of the following were invented in the late 1800s except \_\_\_\_\_.

- A. the lightbulb
- B. the telephone
- C. the atomic bomb
- D. the phonograph

7. Which of the following describes city life between 1870 and 1900?

- A. Many men and women, but no children worked in factories.
- B. Only the rich could afford to have fun.
- C. Immigrants and African Americans were treated fairly and equally.
- D. People living in tenements had more diseases, a higher rate of crime, and less education.

8. What were two major reasons for the growth of American cities between 1865 and 1900?

- A. Most people grew the things they needed at home and people needed jobs.
- B. Industries needed workers and there were more roads in the cities.
- C. Many immigrants came to America and many people from farming communities moved to cities to work in factories.
- D. People migrated to the west and worked on farms.

9. Many inventions and discoveries were made during the Industrial Revolution. In complete sentences, name an invention you feel is important and tell how you think it changed America.

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