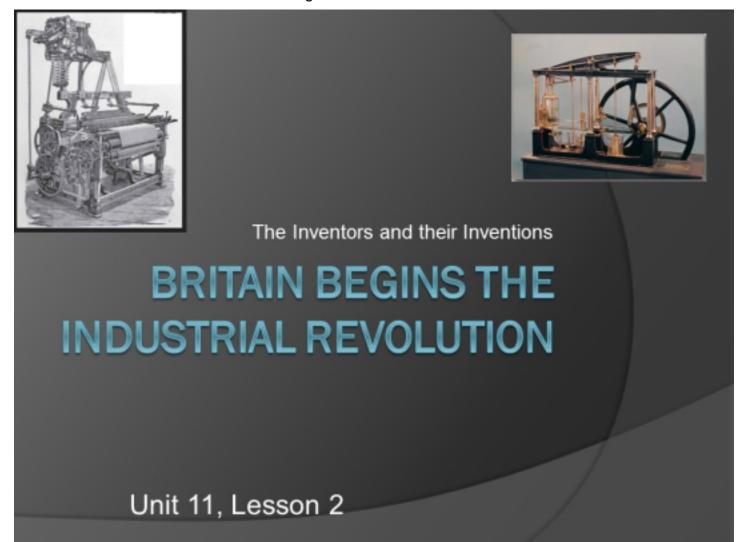
# Britain Begins the Industrial Revolution



### Slide3



Slide4



# Quick Review

# Quick Review

- What was the Industrial Revolution?
  - An extreme change in the way things were made
  - A war between Industry and the government
  - A change in the way the government was run
  - A war between France and Great Britain

- Why did the Industrial Revolution begin in Great Britain?
  - A. Britain had the correct natural resources to begin a revolution in Industry
  - B. Britain had the citizens who had a drive to succeed in industry
  - Both A and B

# Slide6

- In what industry did the Industrial Revolution begin?
  - A. Automobile
  - **B.** Locomotive
  - C. Textile
  - D. Music









On to the Inventors and Inventions of the Industrial Revolution!



**Directions** 



Look at pages 451-457 in your textbook

# Who Am I? John Kay

- Invented the flying shuttle
  - Allowed weavers to make wider pieces of cloth
  - Weavers could make pieces of cloth at much faster speeds
  - Tough for weavers to keep up with the demand for thread







# Who Am I? James Hargreaves

- Invented the Spinning Jenny
  - Linked the flying shuttle and the spinning jenny into one machine
  - Could spin 16 strands of thread at one time
  - Fabric could be made much faster and cheaper
  - Still required human power



# Who Am I?

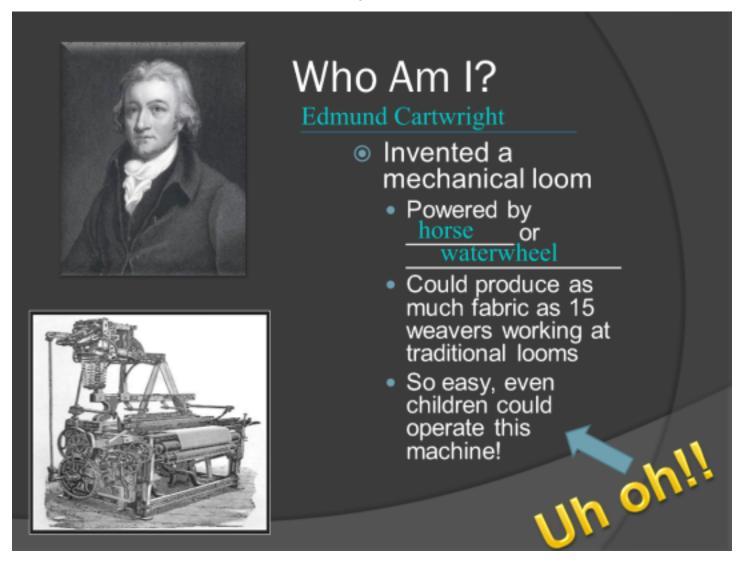
# Richard Arkwright

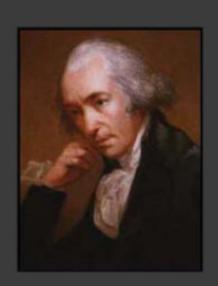
- Invented the Water Frame
  - Used a flowing river as a source of power
  - Capable of making much stronger thread
  - Could spin as many as 80 threads at once
  - Another problem arose
    - Looms could not keep up with thread production





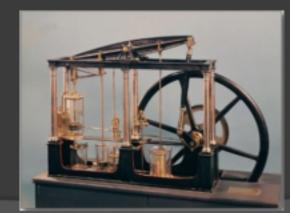
Who Am I?



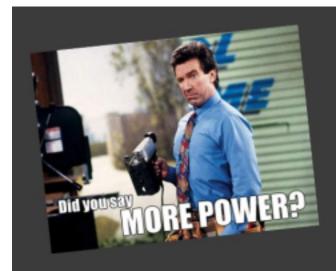


# Who Am I?

- Scottish student, who worked on crude steam engines used in coal mining
- He went on to invent his own, improved pistondriven steam engine that could power all kinds of machines and gave a huge boost to the Industrial Revolution.



### Slide14



- Because of steam power, ships no longer had to depend on <u>wind</u>
- Mills no longer had to use water for power.
- Steam-powered machines could work at rates faster than <u>human power</u> ever could.

Samuel Slater and the Textile Industry

# Samuel Slater and the Textile Industry

- British business men wanted to keep the new ideas to themselves
- Slater disguised himself and left for America, bringing his extensive knowledge of textile machinery
- Built America's first successful cotton mill
- Known as the "Father of the American Industrial Revolution"

Do you have a job or do chores at home? What was the longest stretch of time you had to do work?

Do you have a job or do chores at home?
What was the longest stretch of time you had to do work?

Industrial Revolution also brought many hardships

# Industrial Revolution also brought many hardships

- 14-hour work days
- Child Labor





### Match the inventors to their inventions

# Match the inventors to their inventions Output Outpu

Slide19

