

# How to Use This Quiz Pack

Welcome to the Famous People Mini Quiz Pack, Volume 13: Scottish Inventors! This pack contains three quizzes centering on the work of four Scottish inventors: James Watt, John Rennie, Charles Macintosh, and William Murdoch (also spelled Murdock). An answer key is included for each of the quizzes.

There are many ways to use this pack in your studies:

- It is perfect for review after students have studied the inventors included in this pack.
- Parents and teachers can use the pack to help create a list of ideas or areas you wish to explore as you plan your study.
- Students can use the book as a starting point for independent study. Have students take the quizzes to the library or use them at the computer to search for the answers to the questions. Allow plenty of time for rabbit trails so students can investigate facts and stories they discover as they complete their pack.
- It can also be used as a tool to help students practice and sharpen research and notetaking skills. Have students record where they find the answers to each question as they would if they were doing research for a paper or presentation. You can also use this record of sources to help them dig deeper into the topics that interest them.

However you use the pack in your curriculum, I hope you find many fascinating details to discuss with your students!

## Is It True?

Write T for true or F for false on the line before each of the statements below. If the statement is false, see if you can correct it.

- \_\_\_\_1. Charles Macintosh found a way to make fabric waterproof when he experimented with ways to use the waste products from filtering water.
- \_\_\_\_2. James Watt patented a condenser for use in steam engines after working on a way to improve upon an engine he was asked to repair.
- \_\_\_\_3. William Murdoch worked for the engineering firm of Matthew Boulton and Charles Macintosh.
- \_\_\_\_4. James Watt was one of the first people to say water is an element, not a compound.
- \_\_\_\_5. The New London Bridge, which John Rennie designed, was completed by his sons and later moved to Lake Havasu City, Arizona.
- \_\_\_\_6. Recently, the improved version of the waterproof raincoats invented by Charles Macintosh have become extremely popular in Russia.
- \_\_\_\_7. In addition to his work with steam engines, James Watt also invented a sculpturing machine.
- \_\_\_\_8. William Murdoch did poorly in mathematics in school.
- \_\_\_\_9. Of the many canals, bridges, docks, and harbors built or improved by John Rennie in the United Kingdom, six of them were built across the River Thames in London.
- \_\_\_\_10. William Murdoch's invention of lighting using gas from coal was a great safety device in the cotton mills of the times.
- \_\_\_\_11. In addition to his work on bridges, canals, docks, and harbors, John Rennie also advanced the use of iron for gears and other parts of machinery.
- \_\_\_\_12. The waterproof garment invented by Charles Macintosh is called the mackintosh.

## The World at the Time of James Watt, John Rennie, Charles Macintosh, and William Murdoch

Underline the name of the person who fits the description.

1. Lived when William Light began surveying and planning the city of Adelaide, South Australia.

John Rennie

James Watt

William Murdoch

2. Lived when the British Museum opened in London.

James Watt

John Rennie

Charles Macintosh

3. Lived when Hong Kong was ceded to the United Kingdom by China.

Charles Macintosh

William Murdoch

John Rennie

4. Lived when Michigan became the twenty-sixth state of the United States.

John Rennie

William Murdoch

James Watt

5. Died eight years before Charles Sturt discovered the Darling River in Australia.

Charles Macintosh

William Murdoch

John Rennie

6. Died the same year the United States acquired the territory of Florida from Spain.

James Watt

John Rennie

Charles Macintosh

7. Lived when the Treaty of Waitangi was signed, making New Zealand a British colony.

Charles Macintosh

John Rennie

James Watt

8. Born five years before British economist Thomas Robert Malthus was born.

John Rennie

James Watt

William Murdoch

9. Died five years after George Stephenson first successfully demonstrated a steam locomotive.

James Watt

William Murdoch

Charles Macintosh

10. Lived when the siege of the Alamo in Texas began.  
John Rennie                                  James Watt                                  William Murdoch
11. Lived when Noah Webster copyrighted the first edition of his dictionary.  
James Watt                                  Charles Macintosh                                  John Rennie
12. Died the same year Greece declared independence from the Ottoman Empire.  
John Rennie                                  Charles Macintosh                                  William Murdoch
13. Died two years after work began on the Erie Canal.  
Charles Macintosh                                  William Murdoch                                  James Watt
14. Lived when Crawford Long was the first doctor to use ether as an anesthetic in surgery.  
Charles Macintosh                                  James Watt                                  William Murdoch
15. Died the year before the first postage stamp was issued in the United Kingdom.  
James Watt                                  William Murdoch                                  John Rennie
16. Born the same year men under George Washington's command fired the first shots of the French and Indian War.  
John Rennie                                  James Watt                                  William Murdoch
17. Died the year before the first telegraph test line was opened by Samuel F. B. Morse.  
Charles Macintosh                                  William Murdoch                                  James Watt
18. Died the same year Napoleon Bonaparte died on the island of Saint Helena.  
William Murdoch                                  John Rennie                                  James Watt
19. Lived when Charles Fremantle formally took possession of the western third of the continent of Australia for the United Kingdom.  
John Rennie                                  William Murdoch                                  James Watt
20. Died the year before Charles Goodyear patented the vulcanization of rubber.  
Charles Macintosh                                  John Rennie                                  James Watt

## World of Scottish Inventors Matching

- |          |                               |    |   |
|----------|-------------------------------|----|---|
| _____1.  | Waterproof fabrics            | a. | William Murdoch produced a burnable gas from this substance   |
| _____2.  | Steam                         | b. | For people to make mackintoshes in the United Kingdom factories, they must apprentice for this length of time |
| _____3.  | Boulton & Watt                | c. | John Rennie worked on major drainage projects here  |
| _____4.  | Governor                      | d. | James Watt thought this invention would improve the Newcomen engine   |
| _____5.  | Chemist                       | e. | Charles Macintosh is known as the inventor of this  |
| _____6.  | Copper and tin                | f. | In 1839, this development in rubber became available and improved the mackintosh                              |
| _____7.  | Coal                          | g. | Invented by James Watt to regulate engine speed   |
| _____8.  | Edinburgh                     | h. | Although he began working as a clerk, Charles Macintosh was this in his spare time                            |
| _____9.  | Plymouth Sound                | i. | John Rennie was working on this bridge at time of his death   |
| _____10. | Lincolnshire fens             | j. | William Murdoch discovered that gas jets burned brighter when broken up this way                              |
| _____11. | Tricycle                      | k. | John Rennie planned and began building this breakwater before his death                                       |
| _____12. | London Bridge over the Thames | l. | James Watt installed many pumping engines in these mines in Cornwall  |
| _____13. | Vulcanization                 | m. | At nine, William Murdoch helped build a wooden one of these, driven by hand cranks                            |
| _____14. | Three years                   | n. | James Watt's new designs made this type of power practical  |
| _____15. | Condenser                     | o. | John Rennie studied at this university  |
| _____16. | Into thinner jets             | p. | The company William Murdoch was working for when he developed gas lighting systems                            |

# *Answer Key*

## Is It True?

- \_\_F\_\_1. . . . waste products from gasworks.
- \_\_T\_\_2.
- \_\_F\_\_3. . . . Matthew Boulton and James Watt.
- \_\_F\_\_4. . . . water was a compound, not an element.
- \_\_T\_\_5.
- \_\_F\_\_6. . . . extremely popular in Japan.
- \_\_T\_\_7.
- \_\_F\_\_8. . . . excelled in mathematics . . .
- \_\_F\_\_9. . . . three of them were built across . . .
- \_\_T\_\_10.
- \_\_T\_\_11.
- \_\_T\_\_12.

### The World at the Time of James Watt, John Rennie, Charles Macintosh, and William Murdoch

1. William Murdoch
2. James Watt
3. Charles Macintosh
4. William Murdoch
5. John Rennie
6. James Watt
7. Charles Macintosh
8. John Rennie
9. James Watt
10. William Murdoch
11. Charles Macintosh
12. John Rennie
13. James Watt
14. Charles Macintosh
15. William Murdoch
16. William Murdoch
17. Charles Macintosh
18. John Rennie
19. William Murdoch
20. Charles Macintosh

## World of Scottish Inventors Matching

1. e
2. n
3. p
4. g
5. h
6. l
7. a
8. o
9. k
10. c
11. m
12. i
13. f
14. b
15. d
16. j