The Schools History Project

Set up in 1972 to bring new life to history for students aged 13–16, the Schools History Project continues to play an innovatory role in secondary history education. From the start, SHP aimed to show how good history has an important contribution to make to the education of a young person. It does this by creating courses and materials which both respect the importance of up-to-date, well-researched history and provide enjoyable learning experiences for students.

Since 1978 the Project has been based at Trinity and All Saints University College Leeds. It continues to support, inspire and challenge teachers through the annual conference, regional courses and website: http://www.schoolshistoryproject.org.uk. The Project is also closely involved with government bodies and awarding bodies in the planning of courses for Key Stage 3, GCSE and A level.

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Answers to activity 2 on page 109: Marxist = A, F, Revisionist = C, D, Post-Revisionist = B, E.
Contents

1 Investigating 1745–1901
   Welcome to the Age of …?  2
   Meet the people of 1745–1901  4
   Studying the period 1745–1901  6

2 How did the early industrialists embody the spirit of the age?  10
   The Big Picture: Did the Industrial Revolution have a positive impact on people’s lives?  16

3 What can Olaudah Equiano tell us about the slave trade?  20
   The Big Picture: What were the key aspects of the slave trade?  20
   What can Olaudah Equiano tell us about the slave trade?  22
   How did Equiano depict Africa in the Interesting Narrative?  24
   How did Equiano describe his capture into slavery?  26
   How did Equiano describe his life as a slave?  28
   How did Equiano describe his time as a free man in England?  30

4 How far did people abandon religion in the nineteenth century?  32
   The Big Picture: Can you predict what happened to religion, 1745–1901?  32
   Stepped Enquiry: How far did people abandon religion in the nineteenth century?  34

5 How democratic was the United Kingdom by 1901?  42
   How did the franchise grow in the nineteenth century?  44
   How did Chartism affect Britain’s developing democracy?  46
   How and when did the working classes find their voice?  50
   How did changes in local government affect the development of British democracy?  52
   How does the lack of votes for women affect our view of British democracy in 1901?  54
   Pulling it all together: How democratic was Britain by 1901?  56

6 How important was the Great Hunger in the breakdown of England’s relationship with Ireland?  58
   What were the key events in Ireland’s relationship with England?  59
   What does the Doolough Tragedy tell us about the situation in Ireland in 1849?  60
   Who was to blame for the Great Hunger?  62
   How important was the Great Hunger in the breakdown of Britain’s relationship with Ireland?  66

7 Should the British Empire be a source of national pride?  72
   The Big Picture: The Big Picture of the British Empire, 1500–1900  72
   Stepped Enquiry: Would Cecil Rhodes have wanted a statue of Julius Caesar in his office?  76
   What have the British ever done for us?  82
   Tea, death and drugs: What is wrong with Betts’ board game?  84
   How far do lard-coated cartridges explain the Indian Mutiny of 1857?  86
   Should the British Empire be a source of national pride?  88
8 How significant was the French Revolution?
How significant was the French Revolution? First thoughts 92
What were the effects of the French Revolution? 94
Stepped Enquiry: Should you have a bust of Napoleon in your classroom? 100
Was the French Revolution significant in the long term? 106
Pulling it all together: How significant was the French Revolution? 108

9 Slums, smog and sewers? What was the big story of change, 1745–1901?
The Big Picture: Slums, smog and sewers? What was the big story of change, 1745–1901? 110
Change in the countryside – how would we best describe changes in the village of Ashill? 118
Urbanisation – would moving to Manchester in 1850 have been a change for the better? 122
Change down the mine – how far had John Halls’ life as a typical miner in 1880 been made safer by the Mines Acts? 126
Stepped Enquiry: Change in the workhouse – what can the Andover Scandal teach us about changing attitudes to poverty? 130
How will you sum up the big story of change, 1745–1901? 134

10 Summing it all up, 1745–1901
The Big Picture: Summing it all up, 1745–1901 136
Glossary 138
Index 140
How did the early industrialists embody the spirit of the age?

This section introduces five individuals who embodied (meaning ‘represented’) the spirit of the age. Through them you will gain an insight into the themes that this book will develop. As you read this section, think about what they tell us about everyday life, power, religion and Britain’s international status in the late eighteenth century.

It is the 1780s and the full moon is bright in the sky. A silence is broken by the sound of horses and carriages pulling away from a mansion house outside Birmingham. Inside the building the Lunar Society is meeting – a group of like-minded individuals who meet to discuss science, industry and politics on the Monday nearest to the full moon (so there was light to travel home). Many of them were industrialists. They performed experiments together, shared advice and tried to understand the world that was rapidly changing around them.

This painting, An Experiment on a Bird in the Air Pump by Joseph Wright of Derby (1768), shows the sort of experiment the Lunar Society would have done. The man in the middle is demonstrating what happens when you remove air from a jar containing a bird. The bird is about to die but the man is holding the valve ready to let air back in and revive it.

Activity

1. Look at the faces of the people in painting A above. What do you think they are thinking? Write thought bubbles for each.
2. What questions does this painting make you want to ask? Write a list of them.
Matthew Boulton

In the late eighteenth century, Britain was changing dramatically. What would come to be known as the Industrial Revolution was beginning in all the major cities. Birmingham was no different.

Matthew Boulton was born in 1728. His father made small decorative metal objects, like belt buckles, which were known at the time as ‘toys’. Birmingham, where Boulton lived, had become known as the ‘toyshop of the world’. The production of even the tiniest of these took many different processes and involved the work of lots of different people in different parts of the city.

In 1759 Matthew took over the business and despite very little formal education he came up with the idea to house all production in one building, a ‘manufactory’. Buying land on the outskirts of the city, he built the Soho Manufactory and designed it to look like a palace. Housing all of the processes to produce the toys in one building meant that Boulton could develop an assembly line where each part of the production process was done in sequence. This sped up production drastically and meant far more items could be made. The modern factory was born.

Josiah Wedgwood (see page 13) said of Boulton in 1767:

‘He is I believe the first or the most complete manufacturer in England in metal. He is very ingenious.’

In 1776 Matthew Boulton said:

‘I sell here, sir, what all the world desires to have – power.’

Activity

3 What does this page show you about who had power in the late eighteenth century?
4 Do you think Matthew Boulton would have succeeded in a previous age?
James Watt

In the eighteenth century engineering was progressing at a rapid rate. Steam engines had been invented by Thomas Newcomen (in 1712) but all they could do was pump water out of mines. They needed a genius to realise how to make them better and kick start the Industrial Revolution!

James Watt was born in 1736 in Scotland. He went to London to study musical instrument making and returned to Glasgow, building his reputation for making precise instruments. He became fascinated by steam engines. Realising that lots of energy was lost with Newcomen’s engine, Watt redesigned it and made it far more powerful.

In 1775 Boulton realised the potential profit in the improved machine and invited Watt into partnership with him to produce the engines at Soho. This was very successful and the Boulton Watt Company sold engines throughout the country and even beyond (some were sold to Denmark).

Boulton realised that engines would be more useful if they could be used to power a wheel, not just pump water. Watt leapt to action and by 1784 had completed a design (picture F). Boulton Watt rotary engines were used to power a vast number of industries throughout the country including the newly expanding cotton mills in the north. The mechanisation of industry had begun.

Activity

5 Boulton created a factory. Watt created an engine. Which of these was more important for the Industrial Revolution?
6 What does the work of Boulton and Watt show you about the ideas and values of some men in the late eighteenth century?

Watt’s design for a rotary steam engine.
Josiah Wedgwood

**Boulton and Watt were not the only successful industrialists in the Lunar Society. Josiah Wedgwood made the finest pottery Britain had ever seen.**

Born in 1730, Josiah opened the world’s first pottery factory in Staffordshire in 1769. Using assembly-line production, like Boulton at Soho, Wedgwood also introduced a *division of labour*, giving specific roles to individuals. This allowed them to specialise and thereby speed up the entire process.

The production of porcelain had been a Chinese secret for centuries but Wedgwood (along with others) cracked it. Experimenting for years, Wedgwood made two discoveries about how porcelain could be made. Firstly the use of Cornish china clay, and secondly a system for accurately measuring the temperature inside a kiln. For this Wedgwood was made a fellow of the *Royal Society*, the highest scientific award given at the time.

**Think**

Are you surprised that someone from the late eighteenth century, at the height of the slave trade, argued for its abolition?

**Activity**

1. How would the factory and canal system created by Boulton and Wedgwood have changed the everyday life of the people at the time?
2. What do pictures H and I reveal about the way that the world viewed Britain and the way that Britain treated the world?
Erasmus Darwin and Joseph Priestley

Not all the members of the Lunar Society were industrialists. Two of the most prominent – Erasmus Darwin and Joseph Priestley – were a doctor and a clergyman respectively. Their work and ideas reveal even more about this period.

Erasmus Darwin, the grandfather of Charles Darwin (who features in Section 4), was a physician in the West Midlands. Having trained at Edinburgh University, he was one of the most educated members of the Lunar Society.

Medicine was not his only interest. Darwin wrote extensively on chemistry, geology (see Source J) and botany. In chemistry he developed a system to label elements and gave names to plants that we still use today. His views on women were particularly liberal. He believed that women should have the same rights to education as men – a very controversial view at the time, shared only by some French philosophical thinkers.

Joseph Priestley was a dissenting clergyman. He ran a Unitarian Church which had very different ideas about religion from the Church of England (for example, they did not believe Jesus had a virgin birth).

Priestley is famous for his scientific discoveries. He performed extensive experiments with electricity and chemistry; he even discovered oxygen. However, his political views were controversial. He strongly believed in liberty and thought the power of the government should be limited. He also strongly agreed with the French Revolutionaries, who in 1789 had overthrown their king to establish a democracy (see Section 8).

Activity

9 Can you work out what idea Darwin was talking about in extract I (clue: his grandson Charles developed this)? What does this show about people’s ideas about religion at the time?

J

Yours is one of the few lives precious to mankind, and for the continuance of which every thinking man is grateful.

Thomas Jefferson, one of the founding fathers of the USA, writing to Joseph Priestley, 21 March 1801.

Activity

10 Would Darwin and Priestley’s views have been tolerated in the Middle Ages or the Early Modern Era? What does this show about the late eighteenth century?
The decline of the Lunar Society

The people of Birmingham tolerated Priestley and the Dissenters (the Church most members of the Lunar Society belonged to), with their very different views, until the late 1780s. However, Dissenters were excluded from going to university or becoming politicians and they began to campaign against this in the 1780s. This angered the mainly Church of England public.

This anger grew after the Dissenters supported the French Revolution, which the monarchy-loving British public did not.

On 14 July 1791, the Dissenters met at the Royal Hotel to celebrate the anniversary of the French Revolution. The public had had enough and riots began. Priestley’s house and many other buildings were attacked. Priestley had to flee to the USA.

James Watt wrote that the riots ‘divided [Birmingham] into two parties who hate one another’ and this marked the beginning of the end of the Lunar Society. Although meetings continued, the close ties between the Dissenter and non-Dissenter members were cut.

Rioters burning Priestley’s house in Birmingham, 14 July 1791.

Activity

11 You have learned a lot about the men of the Lunar Society. Discuss as a whole class what their lives have shown you about everyday life, power, religion and Britain’s international relations – the themes of this book – at the end of the eighteenth century.

12 Choose three of the following statements that best sum up life at the end of the eighteenth century. Find evidence from pages 10–15 to justify your decision.

   A time dominated by men
   A time of new opportunities
   A time when power was being shared for the first time
   A good time to live
   A time of wonder
   A time when the world was getting smaller
   A religious time

13 Go back to picture A on page 10, An Experiment on a Bird in the Air Pump. After reading about the Lunar Society, which of the characters in the painting reflects how you feel about the end of the eighteenth century – would you have been frightened like the little girl or full of excitement like the scientist? Make sure you justify your decision.
Did the Industrial Revolution have a positive impact on people’s lives?

The members of the Lunar Society were not unique. In the late eighteenth century similar things were happening throughout Britain. The impact of these developments led to one of the greatest changes in the history of Britain – the Industrial Revolution. Pages 16–19 introduce the most significant parts of this revolution. Men like the members of the Lunar Society who led these changes greatly benefited from them and became very rich but was this the same for everyone else? Did this revolution have a positive impact?

Mechanisation

The work that Boulton and Watt began with their rotary engines developed throughout the nineteenth century as people realised they could use engines to power machines. This mechanisation of production meant larger quantities could be made, more cheaply, in less time.

Think

Do you think the spinning room in picture A looks like a nice place to work?

Think

The spinning room at Shadwell Rope Works, c.1880. The vast number of machines helped to speed up the process of making the ropes which were important for shipping and hauling the goods made from industrialisation.

Activity

Discuss in pairs the consequences of mechanisation, urban migration, the Agricultural Revolution and steel production described on pages 16–17. Would these have been positive or negative impacts?
Urban migration

As larger factories opened, people moved from the countryside to the cities. The population in London rose by nearly 5 million between 1801 and 1901. This often resulted in cramped, poor living conditions.

A photo of slums in London.

Think

What problems can you see in picture B that may have been caused by the ‘boom’ in city population?

Agricultural revolution

As the population rapidly increased, new techniques were needed to feed these people. Using new inventions and scientific techniques like fertilisation there was a revolution in agriculture and food was produced in far greater quantities (see table C below).

<table>
<thead>
<tr>
<th>Year</th>
<th>Wheat</th>
<th>Rye</th>
<th>Barley</th>
<th>Oats</th>
<th>Peas/beans</th>
</tr>
</thead>
<tbody>
<tr>
<td>1650–1699</td>
<td>11.36</td>
<td>14.19</td>
<td>12.48</td>
<td>10.82</td>
<td>8.39</td>
</tr>
<tr>
<td>1700–1749</td>
<td>13.79</td>
<td>14.82</td>
<td>15.08</td>
<td>12.27</td>
<td>10.23</td>
</tr>
<tr>
<td>1750–1799</td>
<td>17.26</td>
<td>17.87</td>
<td>21.88</td>
<td>20.90</td>
<td>14.19</td>
</tr>
<tr>
<td>1800–1849</td>
<td>23.16</td>
<td>19.52</td>
<td>25.90</td>
<td>28.37</td>
<td>17.85</td>
</tr>
<tr>
<td>1850–1899</td>
<td>26.69</td>
<td>26.18</td>
<td>23.82</td>
<td>31.36</td>
<td>16.30</td>
</tr>
</tbody>
</table>

A table showing the average amount of each crop that was able to be produced from a single acre of land in each period.

Steel production

Steel is very strong and does not rust, therefore it is a much needed metal in industry. The eighteenth-century methods of production the Lunar Society Men had relied on were not sufficient. In 1855 Henry Bessemer developed a new method which allowed it to be made quickly in vast quantities. Not only did this industry provide jobs but the metal helped in virtually all the aspects of the Industrial Revolution, notably helping to build the vast factories and railways (see page 110).
Transport

Probably one of the most obvious changes of the Industrial Revolution was in transport. George Stephenson took Watt’s basic rotary engine and developed it to make some of the first locomotive trains. By the end of the nineteenth century railways covered the country and allowed fast and efficient travel. Shipbuilding was equally revolutionised. In 1843 Isambard Kingdom Brunel launched the SS Great Britain, the world’s first iron-hulled ship driven by an engine-powered propeller.

Think

What evidence can you find in pictures D and E to show what the public thought about the changes to transport?
Mining
To power the Industrial Revolution, Britain needed coal. In Wales, the Midlands and the north a vast number of coal mines opened. This provided thousands of jobs but it was very dangerous work.

A photo of Blaenavon coal mine in Wales, now a World Heritage Site. The whole town of Blaenavon grew to support the mine.

Inventions
Building on the scientific and industrial principles of the Lunar Society, many inventions were discovered in the nineteenth century. Examples include the telephone, the camera, the battery and many more. These innovations changed people’s lives.

A nineteenth-century light bulb as invented by Thomas Edison.

Think
How did the telephone, camera and battery change people’s lives?

Activity
2 It is important to think about the consequences of the changes we have just read about. For each change list all the consequences that you can think of.

<table>
<thead>
<tr>
<th>Changes</th>
<th>What are the consequences of these changes?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanisation</td>
<td>Faster production meant more goods, produced cheaper.</td>
</tr>
<tr>
<td>Urban migration</td>
<td></td>
</tr>
<tr>
<td>Agricultural revolution</td>
<td></td>
</tr>
<tr>
<td>Transport</td>
<td></td>
</tr>
<tr>
<td>Mining</td>
<td></td>
</tr>
<tr>
<td>Inventions</td>
<td></td>
</tr>
</tbody>
</table>

3 Now get two coloured pens. For each consequence you have listed underline or highlight it in a different colour to show whether it is:
   a) a positive consequence
   b) a negative consequence.

4 Answer the following question:

Did the Industrial Revolution have a positive impact on people’s lives?

Use all the evidence you can find on pages 10–19 in your answer.