

Gegenstand: History

Thema: Industrial Revolution

Farbcode:

Blau hinterlegt. = Bloom'sche Taxonomie angewandt.

Grün hinterlegt = Scaffolding angewandt

Activity Type/Method and Classroom Format (group work, pair work, ...)	<ol style="list-style-type: none"> 1. Watching a video, note-taking and creating a vocabulary list (= understanding & remembering) <i>individual</i> 2. Answering questions (= remembering) <i>individual</i> 3. Creating questions and discussing the main message (= understanding, analyzing & evaluating) <i>individual + pair</i> 4. Matching the vocabulary (= remembering) <i>individual</i> 5. Describing, deconstructing and interpreting a picture (= understanding, applying & analyzing) <i>pair</i> 6. Formulating a blog entry (= creating) <i>individual</i> 7. Finding arguments and defending your point of view (= evaluating & creating) <i>individual + pair</i> 8. Jigsaw-reading, collecting information (= understanding) <i>individual + pair</i> 9. Debriefing, completing notes (= understanding) <i>group</i>
Time	5x 50 min.
Procedure (step 1, 2, 3, ...)	<ol style="list-style-type: none"> 1. Students watch a video and take notes 2. Students create a vocabulary list based on the video 3. Students formulate questions to summarize the core messages presented in the video 4. Students discuss the core messages presented in the video 5. Students match words to their definition in order to describe a picture properly 6. Students describe the essential points of a painting 7. Students discuss the consequences of the changes depicted in the painting 8. Students formulate a blog entry 9. Students find arguments and discuss different points of view 10. Students summarize the main message of a text 11. Students present, compare and combine their main messages
Resources (handout, book, ...)	<p>Video: The Industrial Revolution (18-19th century) by Simple History https://www.youtube.com/watch?v=xLhNP0qp38Q&t=60s (15/12/2019)</p> <p>Picture: Adolph von Menzel, The Iron Rolling Mill (Modern Cyklopen). In: https://upload.wikimedia.org/wikipedia/commons/4/4a/Adolph_Menzel_-_Eisenwalzwerk_-_Google_Art_Project.jpg (16/12/2019).</p> <p>Picture: Philip James de Loutherbourg, Coalbrookdale by Night. In: https://upload.wikimedia.org/wikipedia/commons/4/42/Philipp_Jakob_Loutherbourg_d._J._002.jpg (16/12/2019).</p> <p>Follow up text: Tuttle, Carolyn. "Child Labour during the British Industrial Revolution". EH.Net Encyclopedia, edited by Robert Whaples. August 14, 2001. http://eh.net/encyclopedia/child-labor-during-the-british-industrial-revolution/ (17/12/2019).</p>
Content-Related Learning Outcome	<ul style="list-style-type: none"> • Students know the reasons for the Industrial Revolution to take place • Students know about the development and consequences of the Industrial Revolution • Students can describe and deconstruct the main content of a picture • Students can generate historic facts by analyzing a picture • Students can bring in facts on the ongoing climate debate • Students know the main facts about child labour during the Industrial Revolution in Britain

Language-Related Learning Outcome	<ul style="list-style-type: none"> • Students know basic words and terms connected to the Industrial Revolution • Students can describe and discuss the core message of a painting • Students know how to write a blog entry • Students can argue their point of view
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Lehrplanbezug BAfEP: IV. Jahrgang, 7. Semester (Kompetenzmodul 7); „im Bereich „Kultur/Wissenschaft“ - die Industrielle Revolution und deren Auswirkungen interpretieren“ (BAfEP Lehrplan 2016, S 39. https://bafep10.at/wp-content/uploads/2016/03/VO-Lehrplan-neu-Juli-2016_Deckblatt.pdf)

Lehrplanbezug HAK: III. Jahrgang, 6. Semester (Kompetenzmodul 6); „Veränderungen der Arbeitswelt und der Sozialstrukturen durch Industrialisierung und Globalisierung Wirtschaftsordnungen und deren ideologischen Grundlagen: Liberalismus und Kapitalismus, Marxismus, Christliche Soziallehre Idealtypische Modelle: Zentralverwaltungswirtschaft, Marktwirtschaft“ (HAK Lehrplan 2014, S. 80. https://www.hak.cc/files/syllabus/Lehrplan_HAK_2014.pdf)

Lehrplanbezug HLW: III. Jahrgang, 5. Semester (Kompetenzmodul 5); „Europa und die Welt von 1814 bis 1914: Liberalismus, Nationalismus, Revolutionsjahr 1848, Imperialismus. Industrialisierung, Soziale Frage und Lösungsideen.“ (HLW Lehrplan 2014, S. 57. https://www.hum.at/images/aktuelles/formulare/SV_Beilagen_Lehrplaene_Hum/SV-Beilage_HLW_ohneAM_27_2_2014.pdf)

Lehrplanbezug HTL: III. Jahrgang, 5. Semester (Kompetenzmodul 5); Bereich Geschichte: Technische Entwicklungen und ihre Auswirkungen; Industrialisierung und gesellschaftlicher Wandel; Arbeitswelten; https://www.ris.bka.gv.at/Dokumente/Begut/BEGUT_COO_2026_100_2_672313/COO_2026_100_2_674358.pdf

Einsatz im Englischunterricht:

Das Unterrichtsbeispiel ist auf den Lehrplan im Gegenstand Geschichte, Sozialkunde und Politische Bildung abgestimmt.

The Industrial Revolution

Task 1:



Watch the short video about the beginning of the Industrial Revolution in the 1800s on your mobile device/computer.

Use the transcript option if you can't understand the speaker. **Take notes** about the content of the video, you will need them for task two.



Generate a **vocabulary list** with words you don't know and look them up on www.dict.cc. If you have any questions, your teacher is ready to help.

<https://www.youtube.com/watch?v=xLhNP0qp38Q>

Task 2:

Watch the video again and answer the following questions in full sentences. Use your notes from Task 1.

What does the term "Industrial Revolution" mean?	
What does the term "Agricultural Revolution" mean?	
What were the advantages of the new steam engines?	
What were the living conditions in the cities like during the beginning of the Industrial Revolution?	
Which sectors of the industry were changed the most through industrialization?	
Which was the first industrialized nation of the world and why?	

Task 3:

- a) **Create five true/false questions** that summarize the core content of the video. Write down the correct answer to all your “No-questions” on a separate sheet.



- b) Work in pairs and **answer your partner's questions**. Then **discuss** the core message of the video **in pairs**.

Task 4:**Match the vocabulary**

Match the words (1-9) to their definitions (a-i).

1	canvas	a	The part of a scene or picture that is nearest to and in front of the viewer
2	display	b	very light
3	contrasting	c	Things have that result from the way in which they reflect light
4	vivid	d	Closely woven piece of cotton, hemp or linen on which a painting is made
5	pale	e	to show or make visible
6	dark	f	very bright
7	in the foreground	g	with little or no light
8	in the background	h	very different
9	colours	i	The part of a pictorial representation that appears to be in the distance.

Task 5:



- a) Form new pairs: **describe and deconstruct the information** given in your picture to your partner.
- b) **With your partner discuss** what the main changes of the Industrial Revolution were in the 1800s concerning the environment and the people.

Student A:



Adolph von Menzel, The Iron Rolling Mill (Modern Cyklopen). Around 1872-1875. ¹

¹ Adolph von Menzel, The Iron Rolling Mill (Modern Cyklopen). In:
https://upload.wikimedia.org/wikipedia/commons/4/4a/Adolph_Menzel_-_Eisenwalzwerk_-_Google_Art_Project.jpg (16.12.2019).

Student B:



Philip James de Loutherbourg, Coalbrookdale by Night. Around 1801²

Task 6:



Write a blog entry for a scientific online youth blog in which you **sum up** the most important facts about the Industrial Revolution and the changes the revolution brought along for the people and the environment. Also incorporate the current discussion about climate change into your blog entry. Write **about 200 words**. Remember the **layout** of a blog entry!

Task 7:



Discussion battle

The class is divided into students A and students B. Both groups should find arguments for a discussion in the British parliament at the beginning of the 1800s.

- a) Group A should **find arguments for** the factory owners. The factory owners should be supported by the state so that they can build more and more factories.
- b) Group B should **find arguments against** factories. The number of factories should be reduced by the state because they destroy the home production of textile products which helps the people more than the industrialization.

Then get into pairs (find a partner with whom you haven't worked together yet) and discuss this controversial topic.

² Philip James de Loutherbourg, Coalbrookdale by Night. In: https://upload.wikimedia.org/wikipedia/commons/4/42/Philipp_Jakob_Loutherbourg_d._J._002.jpg (16.12.2019).

Possible Follow up**Task 8:**

Read one section of the text on “Child Labour during the British Industrial Revolution”. Your teacher will tell you which section of the text you should read. **Skim** through the text in about 2 minutes to get the general idea. You **do not need to understand** every single word.

Now **turn your worksheet upside down** so you can't see the text anymore. Tell **a partner** who has read the same one as you everything you can remember about the text. Together you can reconstruct the main ideas.

Task 9:

Read your text again.

In **new groups of three**, i.e. two people with other texts and you, inform each other about your different texts concerning child labour during the Industrial Revolution in Britain.

Child Labor during the British Industrial Revolution

Carolyn Tuttle, Lake Forest College

During the late eighteenth and early nineteenth centuries Great Britain became the first country to industrialize. Because of this, it was also the first country where the nature of children's work changed so dramatically that child labor became seen as a social problem and a political issue.

This article examines the historical debate about child labor in Britain, Britain's political response to problems with child labor, quantitative evidence about child labor during the 1800s, and economic explanations of the practice of child labor.

The Historical Debate about Child Labor in Britain

Child Labor before Industrialization

Children of poor and working-class families had worked for centuries before industrialization – helping around the house or assisting in the family's enterprise when they were able. The practice of putting children to work was first documented in the Medieval era when fathers had their children spin thread for them to weave on the loom. Children performed a variety of tasks that were auxiliary to their parents but critical to the family economy. The family's household needs determined the family's supply of labor and "the interdependence of work and residence, of household labor needs, subsistence requirements, and family relationships constituted the 'family economy'" [Tilly and Scott (1978, 12)].

Definitions of Child Labor

The term "child labor" generally refers to children who work to produce a good or a service which can be sold for money in the marketplace regardless of whether or not they are paid for their work. A "child" is usually defined as a person who is dependent upon other individuals (parents, relatives, or government officials) for his or her livelihood. The exact ages of "childhood" differ by country and time period.

Preindustrial Jobs

Children who lived on farms worked with the animals or in the fields planting seeds, pulling weeds and picking the ripe crop. Ann Kussmaul's (1981) research uncovered a high percentage of youths working as servants in husbandry in the sixteenth century. Boys looked after the draught animals, cattle and sheep while girls milked the cows and cared for the chickens. Children who worked in homes were either apprentices, chimney sweeps, domestic servants, or assistants in the family business. As apprentices, children lived and worked with their master who established a workshop in his home or attached to the back of his cottage. The children received training in the trade instead of wages. Once they became fairly skilled in the trade they became journeymen. By the time they reached the age of twenty-one, most could start their own business because they had become highly skilled masters. Both parents and children considered this a fair arrangement unless the master was abusive. The infamous chimney sweeps, however, had apprenticeships considered especially harmful and exploitative. Boys as young as four would work for a master sweep who would send them up the narrow chimneys of British homes to scrape the soot off the sides. The first labor law passed in Britain to protect children from poor working conditions, the Act of 1788, attempted to improve the plight of these "climbing boys." Around age twelve many girls left home to become domestic servants in the homes of artisans, traders, shopkeepers and manufacturers. They received a low wage, and room and board in exchange for doing household chores (cleaning, cooking, caring for children and shopping).

Children who were employed as assistants in domestic production (or what is also called the cottage industry) were in the best situation because they worked at home for their parents. Children who were helpers in the family business received training in a trade and their work directly increased the productivity of the family and hence the family's income. Girls helped with dressmaking, hat making and button making while boys assisted with shoemaking, pottery making and horse shoeing. Although hours varied from trade to trade and family to family, children usually worked twelve hours per day with time out for meals and tea. These hours, moreover, were not regular over the year or consistent from

day-to-day. The weather and family events affected the number of hours in a month children worked. This form of child labor was not viewed by society as cruel or abusive but was accepted as necessary for the survival of the family and development of the child.

Early Industrial Work

Once the first rural textile mills were built (1769) and child apprentices were hired as primary workers, the connotation of “child labor” began to change. Charles Dickens called these places of work the “dark satanic mills” and E. P. Thompson described them as “places of sexual license, foul language, cruelty, violent accidents, and alien manners” (1966, 307). Although long hours had been the custom for agricultural and domestic workers for generations, the factory system was criticized for strict discipline, harsh punishment, unhealthy working conditions, low wages, and inflexible work hours. The factory depersonalized the employer-employee relationship and was attacked for stripping the worker’s freedom, dignity and creativity. These child apprentices were paupers taken from orphanages and workhouses and were housed, clothed and fed but received no wages for their long day of work in the mill. A conservative estimate is that around 1784 one-third of the total workers in country mills were apprentices and that their numbers reached 80 to 90% in some individual mills (Collier, 1964). Despite the First Factory Act of 1802 (which attempted to improve the conditions of parish apprentices), several mill owners were in the same situation as Sir Robert Peel and Samuel Greg who solved their labor shortage by employing parish apprentices.

After the invention and adoption of Watt’s steam engine, mills no longer had to locate near water and rely on apprenticed orphans – hundreds of factory towns and villages developed in Lancashire, Manchester, Yorkshire and Cheshire. The factory owners began to *hire* children from poor and working-class families to work in these factories preparing and spinning cotton, flax, wool and silk.

The Child Labor Debate

What happened to children within these factory walls became a matter of intense social and political debate that continues today. Pessimists such as Alfred (1857), Engels (1926), Marx (1909), and Webb and Webb (1898) argued that children worked under deplorable conditions and were being exploited by the industrialists. A picture was painted of the “dark satanic mill” where children as young as five and six years old worked for twelve to sixteen hours a day, six days a week without recess for meals in hot, stuffy, poorly lit, overcrowded factories to earn as little as four shillings per week. Reformers called for child labor laws and after considerable debate, Parliament took action and set up a Royal Commission of Inquiry into children’s employment. Optimists, on the other hand, argued that the employment of children in these factories was beneficial to the child, family and country and that the conditions were no worse than they had been on farms, in cottages or up chimneys. Ure (1835) and Clapham (1926) argued that the work was easy for children and helped them make a necessary contribution to their family’s income. Many factory owners claimed that employing children was necessary for production to run smoothly and for their products to remain competitive. John Wesley, the founder of Methodism, recommended child labor as a means of preventing youthful idleness and vice. Ivy Pinchbeck (1930) pointed out, moreover, that working hours and conditions had been as bad in the older domestic industries as they were in the industrial factories.

Factory Acts

Although the debate over whether children were exploited during the British Industrial Revolution continues today [see Nardinelli (1988) and Tuttle (1998)], Parliament passed several child labor laws after hearing the evidence collected. The three laws which most impacted the employment of children in the textile industry were the Cotton Factories Regulation Act of 1819 (which set the minimum working age at 9 and maximum working hours at 12), the Regulation of Child Labor Law of 1833 (which established paid inspectors to enforce the laws) and the Ten Hours Bill of 1847 (which limited working hours to 10 for children and women).

The Extent of Child Labor

The significance of child labor during the Industrial Revolution was attached to both the changes in the nature of child labor and the extent to which children were employed in the factories. Cunningham (1990) argues that the idleness of children was more a problem during the Industrial Revolution than the exploitation resulting from employment. He examines the *Report on the Poor Laws* in 1834 and finds that in parish after parish there was very little employment for children. In contrast, Cruickshank (1981), Hammond and Hammond (1937), Nardinelli (1990), Redford (1926), Rule (1981), and Tuttle (1999) claim that a large number of children were employed in the textile factories. These two seemingly contradictory claims can be reconciled because the labor market for child labor was not a national market. Instead, child labor was a regional phenomenon where a high incidence of child labor existed in the manufacturing districts while a low incidence of children were employed in rural and farming districts.

Since the first reliable *British Census* that inquired about children's work was in 1841, it is impossible to compare the number of children employed on the farms and in cottage industry with the number of children employed in the factories during the heart of the British industrial revolution. It is possible, however, to get a sense of how many children were employed by the industries considered the "leaders" of the Industrial Revolution – textiles and coal mining. Although there is still not a consensus on the degree to which industrial manufacturers depended on child labor, research by several economic historians have uncovered several facts.

Estimates of Child Labor in Textiles

Using data from an early *British Parliamentary Report* (1819[HL.24]CX), Freuenberger, Mather and Nardinelli concluded that "children formed a substantial part of the labor force" in the textile mills (1984, 1087). They calculated that while only 4.5% of the cotton workers were under 10, 54.5% were under the age of 19 – confirmation that the employment of children and youths was pervasive in cotton textile factories (1984, 1087). Tuttle's research using a later *British Parliamentary Report* (1834(167)XIX) shows this trend continued. She calculated that children under 13 comprised roughly 10 to 20 % of the work forces in the cotton, wool, flax, and silk mills in 1833. The employment of youths between the age of 13 and 18 was higher than for younger children, comprising roughly 23 to 57% of the work forces in cotton, wool, flax, and silk mills. Cruickshank also confirms that the contribution of children to textile work forces was significant. She showed that the growth of the factory system meant that from one-sixth to one-fifth of the total work force in the textile towns in 1833 were children under 14. There were 4,000 children in the mills of Manchester; 1,600 in Stockport; 1,500 in Bolton and 1,300 in Hyde (1981, 51).

The employment of children in textile factories continued to be high until mid-nineteenth century. According to the *British Census*, in 1841 the three most common occupations of boys were Agricultural Labourer, Domestic Servant and Cotton Manufacture with 196,640; 90,464 and 44,833 boys under 20 employed, respectively. Similarly for girls the three most common occupations include Cotton Manufacture. In 1841, 346,079 girls were Domestic Servants; 62,131 were employed in Cotton Manufacture and 22,174 were Dress-makers. By 1851 the three most common occupations for boys under 15 were Agricultural Labourer (82,259), Messenger (43,922) and Cotton Manufacture (33,228) and for girls it was Domestic Servant (58,933), Cotton Manufacture (37,058) and Indoor Farm Servant (12,809) (1852-53[1691-I]LXXXVIII, pt.1). It is clear from these findings that children made up a large portion of the work force in textile mills during the nineteenth century. Using returns from the Factory Inspectors, S. J. Chapman's (1904) calculations reveal that the percentage of child operatives under 13 had a downward trend for the first half of the century from 13.4% in 1835 to 4.7% in 1838 to 5.8% in 1847 and 4.6% by 1850 and then rose again to 6.5% in 1856, 8.8% in 1867, 10.4% in 1869 and 9.6% in 1870 (1904, 112).

Estimates of Child Labor in Mining

Children and youth also comprised a relatively large proportion of the work forces in coal and metal mines in Britain. In 1842, the proportion of the work forces that were children and youth in coal and metal mines ranged from 19 to 40%. A larger proportion of the work forces of coal mines used child labor underground while more children were found on the surface of metal mines "dressing the ores" (a process of separating the ore from the dirt and rock). By 1842 one-third of the underground work force of coal mines was under the age of 18 and one-fourth of the work force of metal mines were children and youth (1842[380]XV). In 1851 children and youth (under 20) comprised 30% of the total population

of coal miners in Great Britain. After the Mining Act of 1842 was passed which prohibited girls and women from working in mines, fewer children worked in mines. *The Reports on Sessions 1847-48 and 1849 Mining Districts I* (1847-48[993]XXVI and 1849[1109]XXII) and *The Reports on Sessions 1850 and 1857-58 Mining Districts II* (1850[1248]XXIII and 1857-58[2424]XXXII) contain statements from mining commissioners that the number of young children employed underground had diminished.

In 1838, Jenkin (1927) estimates that roughly 5,000 children were employed in the metal mines of Cornwall and by 1842 the returns from *The First Report* show as many as 5,378 children and youth worked in the mines. In 1838 Lemon collected data from 124 tin, copper and lead mines in Cornwall and found that 85% employed children. In the 105 mines that employed child labor, children comprised from as little as 2% to as much as 50% of the work force with a mean of 20% (Lemon, 1838). According to Jenkin the employment of children in copper and tin mines in Cornwall began to decline by 1870 (1927, 309).

Explanations for Child Labor

The Supply of Child Labor

Given the role of child labor in the British Industrial Revolution, many economic historians have tried to explain why child labor became so prevalent. A competitive model of the labor market for children has been used to examine the factors that influenced the demand for children by employers and the supply of children from families. The majority of scholars argue that it was the plentiful supply of children that increased employment in industrial work places turning child labor into a social problem. The most common explanation for the increase in supply is poverty – the family sent their children to work because they desperately needed the income. Another common explanation is that work was a traditional and customary component of ordinary people's lives. Parents had worked when they were young and required their children to do the same. The prevailing view of childhood for the working-class was that children were considered "little adults" and were expected to contribute to the family's income or enterprise. Other less commonly argued sources of an increase in the supply of child labor were that parents either sent their children to work because they were greedy and wanted more income to spend on themselves or that children wanted out of the house because their parents were emotionally and physically abusive. Whatever the reason for the increase in supply, scholars agree that since mandatory schooling laws were not passed until 1876, even well-intentioned parents had few alternatives.

The Demand for Child Labor

Other compelling explanations argue that it was demand, not supply, that increased the use of child labor during the Industrial Revolution. One explanation came from the industrialists and factory owners – children were a cheap source of labor that allowed them to stay competitive. Managers and overseers saw other advantages to hiring children and pointed out that children were ideal factory workers because they were obedient, submissive, likely to respond to punishment and unlikely to form unions. In addition, since the machines had reduced many procedures to simple one-step tasks, unskilled workers could replace skilled workers. Finally, a few scholars argue that the nimble fingers, small stature and suppleness of children were especially suited to the new machinery and work situations. They argue children had a comparative advantage with the machines that were small and built low to the ground as well as in the narrow underground tunnels of coal and metal mines. The Industrial Revolution, in this case, increased the demand for child labor by creating work situations where they could be very productive.

Influence of Child Labor Laws

Whether it was an increase in demand or an increase in supply, the argument that child labor laws were not considered much of a deterrent to employers or families is fairly convincing. Since fines were not large and enforcement was not strict, the implicit tax placed on the employer or family was quite low in comparison to the wages or profits the children generated [Nardinelli (1980)]. On the other hand, some scholars believe that the laws reduced the number of younger children working and reduced labor hours in general [Chapman (1904) and Plener (1873)].

Despite the laws there were still many children and youth employed in textiles and mining by mid-century. Booth calculated there were still 58,900 boys and 82,600 girls under 15 employed in textiles and dyeing in 1881. In mining the number did not show a steady decline during this period, but by 1881 there were 30,400 boys under 15 still employed and 500 girls under 15. See below.

Table 1: Child Employment, 1851-1881

Industry & Age Cohort	1851	1861	1871	1881
Mining				
Males under 15	37,300	45,100	43,100	30,400
Females under 15	1,400	500	900	500
Males 15-20	50,100	65,300	74,900	87,300
Females over 15	5,400	4,900	5,300	5,700
Total under 15 as % of work force	13%	12%	10%	6%
Textiles and Dyeing				
Males under 15	93,800	80,700	78,500	58,900
Females under 15	147,700	115,700	119,800	82,600
Males 15-20	92,600	92,600	90,500	93,200
Females over 15	780,900	739,300	729,700	699,900
Total under 15 as % of work force	15%	19%	14%	11%

Source: Booth (1886, 353-399).

Explanations for the Decline in Child Labor

There are many opinions regarding the reason(s) for the diminished role of child labor in these industries. Social historians believe it was the rise of the domestic ideology of the father as breadwinner and the mother as housewife, that was imbedded in the upper and middle classes and spread to the working-class. Economic historians argue it was the rise in the standard of living that accompanied the Industrial Revolution that allowed parents to keep their children home. Although mandatory schooling laws did not play a role because they were so late, other scholars argue that families started showing an interest in education and began sending their children to school voluntarily. Finally, others claim that it was the advances in technology and the new heavier and more complicated machinery, which required the strength of skilled adult males, that led to the decline in child labor in Great Britain. Although child labor has become a fading memory for Britons, it still remains a social problem and political issue for developing countries today.

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Citation: Tuttle, Carolyn. "Child Labor during the British Industrial Revolution". *EH.Net Encyclopedia*, edited by Robert Whaples. August 14, 2001. URL
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Key

Task 2:

Watch the video again and answer the following questions in full sentences.

What does the term “Industrial Revolution” mean?	Agrarian and handicraft economies in Europe and America were transformed into industrial and urbanized ones. The term was first used by the English economic historian Arnold Toynbee.
What does the term “Agricultural Revolution” means?	From the mid 18 th to the mid 19 th century agricultural production increased dramatically. The increase of food output supported the expansion and sustained a large population and boosted trade. The increased use of machines over human or animal power in farming meant that fewer farm workers were needed. So, they could leave the farm to move to industrial towns.
What were the advantages of the new steam engines?	The steam engine powered factories, locomotives and ships. The steam engine used coal and iron in the construction and as fuel. Thus, the demand for these resources increased.
What were the living conditions in the cities like during the beginning of the Industrial Revolution?	The revolution was visible in industrial towns with smoking factories dominating the skyline. The industrial cities were overcrowded and dirty. In the factories working conditions were dangerous and harsh with strict rules, punishments and low wages for the work force.
Which sectors of the industry were changed the most through industrialization?	The textile sector and the iron industry.
Which was the first industrialized nation of the world and why?	Great Britain was the birthplace of the Industrial Revolution. This was because as an island there was relative peace and stability. There was enough capital to invest in new inventions, investors were confident and there were enough natural resources. Engineers and inventors were largely respected and encouraged in Britain. A powerful navy and an empire brought in vast wealth from the colonies.

Task 4:
Match the vocabulary

1	canvas	a	closely woven piece of cotton, hemp or linen on which a painting is made
2	display	b	to show or make visible
3	contrasting	c	very different
4	vivid	d	very bright
5	pale	e	very light
6	dark	f	with little or no light
7	in the foreground	g	the part of a scene or picture that is nearest to and in front of the viewer
8	in the background	h	the part of a pictorial representation that appears to be in the distance
9	colours	i	things have that result from the way in which they reflect light