CHAPTER 9 SECTION 1 GUIDED READING THE BEGINNINGS OF INDUSTRIALIZATION

What were the abundant natural resources the beginnings of industrialization? Coal was needed in vast quantities for the Industrial Revolution to fuel steam engines and furnaces. Iron ore was necessary for machines, buildings, and bridges. England had an abundance of both as well has rivers for inland transportation. Labor represents a large workforce for the industries.

How did enclosure and crop rotation pave the way for an Agricultural Revolution? Enclosure is also considered one of the causes of the Agricultural Revolution. Enclosed land was under control of the farmer, who was free to adopt better farming practices. Following enclosure, crop yields and livestock output increased while at the same time productivity increased enough to create a surplus of labor.

How might the steamboat have impacted the economy of a place? Compared to other types of craft used at the time, such as flatboats, keelboats, and barges, steamboats greatly reduced both the time and expense of shipping goods to distant markets. For this reason, they were enormously important in the growth and consolidation of the U.S. economy before the Civil War.

What factors contributed to the beginnings of industrialization in the United States?

What are the 3 most important natural resources necessary for the start of the Industrial Revolution?

How did natural resources cause industrialization? Flexi Says: Abundant natural resources, such as coal, iron, and timber, played a crucial role in driving the Industrial Revolution. Coal was used as fuel in the newly invented steam engines and in the production of iron. Iron was essential for constructing machines, railways, and buildings.

How did farmers change the way they planted the land during the Industrial Revolution? Farmers developed methods of crop cultivation, using four-year cycles to produce and rotate high-yield crops such as wheat, turnips, barley, oats, and clover in the field. These crops maintained a chemical balance in the soil, allowing high crop yields.

What was the enclosure movement and how did it help get the Industrial Revolution started? The Enclosure Movement was a push in the 18th and 19th centuries to take land that had formerly been owned in common by all members of a village, or at least available to the public for grazing animals and growing food, and change it to privately owned land, usually with walls, fences or hedges around it.

What were the effects of the Industrial Revolution on agriculture or farming? New technology, including chemicals and larger tractors, allowed farmers to work larger areas of land with less labor. Government policies encouraged farmers to scale up their operations. Farmers were also motivated by economies of scale—the economic advantage of producing larger numbers of products.

Which aspect of mass production allows a broken machine to be fixed quickly using an identical item? Interchangeable parts is the idea that identical parts used for multiple goods make it possible for manufactured goods to be made quickly and replaced easily by unskilled workers facilitating mass production.

How did steamboats transform trade on the Mississippi River? With steamboats going up and down the Mississippi and its tributaries, and railroads being built, costs diminished and profits expanded significantly. In addition, farmers could now acquire the goods they needed for their operations with much greater facility.

How were steamboats beneficial? Steamboats helped to spread ideas, values, and culture through travel. People shared experiences and ideas on board the boat

and at the various ports. News and ideas traveled through the various steamboat ports and led to an increase in communication among the different regions of the United States.

How did the Industrial Revolution change working conditions for people? Working for businesses during the Industrial Revolution paid better wages than agricultural work. The increase in the number of factories and migration to the cities led to pollution, deplorable working and living conditions, and child labor.

What was the main reason for poor living conditions in cities? What was the main reason for poor living conditions in cities? Cities were not prepared for so many new workers. Why were factory conditions so bad at the start of the Industrial Revolution? Laws were not in place to protect workers.

What were the advantages of the Industrial Revolution?

Which change brought about by industrialization had the greatest impact? Urbanization was the greatest change to industrialized society. Cities expanded enormously as workers left their farms and migrated from rural areas to the city in search of jobs.

Which social change occurred during the Industrial Revolution? How did the Industrial Revolution change society? The Industrial Revolution increased the overall amount of wealth and distributed it more widely than had been the case in earlier centuries, helping to enlarge the middle class.

What countries were affected by the Industrial Revolution? The Industrial Revolution began in England in the late 18th century, and spread during the 19th century to Belgium , Germany , Northern France , the United States , and Japan .

What were the major demographic and social consequences of industrialization? It produced a new class of wealthy industrialists and a prosperous middle class. It also produced a vastly expanded blue collar working class. The labor force that made industrialization possible was made up of millions of newly arrived immigrants and even larger numbers of migrants from rural areas.

What were the consequences of the Industrial Revolution on society and the environment? The Industrial Revolution impacted the environment. The world saw a

major increase in population, which, along with an increase in living standards, led to the depletion of natural resources. The use of chemicals and fuel in factories resulted in increased air and water pollution and an increased use of fossil fuels.

How has the Industrial Revolution contributed to climate change? Human activity has rapidly increased the emission of greenhouse gases to the atmosphere. Since the start of the Industrial Revolution, in about 1750, human activities such as burning fossil fuels, including coal and oil, have increased greenhouse gas concentrations in our atmosphere.

What resources contributed to the beginning of industrialization? The technological changes included the following: (1) the use of new basic materials, chiefly iron and steel, (2) the use of new energy sources, including both fuels and motive power, such as coal, the steam engine, electricity, petroleum, and the internal-combustion engine, (3) the invention of new machines, such as ...

What 3 natural resources were most important for industrialization? What natural resources were most important for industrialization? Oil, Coal, Iron ore, Water. How did electricity change American life? It change the nature of business, it made possible new inventions and appliances, and it helped cities and industries grow.

What were 4 natural resources in the Industrial Revolution?

What was an abundant amount of these two natural resources lead to the Industrial Revolution beginning in Great Britain? Despite its small size, Great Britain possessed an abundance of coal and iron, two natural resources at the forefront of industrialization. Scientific progress resulted in technologies that made use of these resources, such as the steam engine.

What is ketchup made of? Tomatoes, sweeteners, vinegar, salt, spices, flavorings, onion, and/or garlic are the primary ingredients in ketchup. Sweeteners are typically granulated cane sugar or beet sugar.

How long does homemade ketchup last? Pack and Store Your Homemade Ketchup Ladle your ketchup directly into sterilized jars and store in fridge or freezer. Ketchup will keep 3 weeks in the fridge or 6 months in the freezer.

Does homemade ketchup taste better? Homemade ketchup is simple and much more flavorful than anything you can buy at the store. I use 4 tablespoons of sugar, but adjust the sugar to your taste.

How do you thicken homemade tomato ketchup? The only correct way to thicken ketchup is to reduce the amount of liquid when cooking. Simmer the ketchup in the pot without a lid until it thickens. Depending on the amount of liquid in the tomatoes, it may take one to two hours for the ketchup to reduce.

What ingredient is very high in ketchup? It's fairly high in salt. Most packaged ketchup products are also high in salt.

What are the 5 ingredients in Heinz ketchup? From the Package TOMATO CONCENTRATE FROM RED RIPE TOMATOES, DISTILLED VINEGAR, HIGH FRUCTOSE CORN SYRUP, CORN SYRUP, SALT, SPICE, ONION POWDER, NATURAL FLAVORING.

What is the formulation of tomato ketchup? The main ingredients of ketchup are tomatoes, sweeteners, vinegar, salt, spices, flavourings, onion, and/or garlic. The types of sweetener used are usually granulated cane sugar or beet sugar. Other sweeteners include dextrose or liquid sugar in the form of corn or glucose syrup.

How do you increase the shelf life of ketchup? Follow the “keep refrigerated after opening” instruction. Keep the cap or lid tightly closed after each use. Flies and bugs may leave their eggs or microbes on the exposed condiment. Use a clean spoon when scooping condiment from the jar.

What spices are in Heinz ketchup? The tangy-sweet sauce contains vinegar, onions, garlic, some kind of sweetener, and seasonings like mustard powder, cumin, allspice and cinnamon. However, if you were to make a batch at home with those ingredients, your ketchup still probably wouldn't taste like the stuff you get at the diner.

How to improve tomato ketchup? Make your Tomato Ketchup more flavourful by adding garlic and onion when cooking. Store the preparation in a sealed container under refrigeration to increase the shelf life or prepare a fresh batch every time you need it.

What kind of tomatoes are used for ketchup? Sauce tomatoes (Roma) are ideal, but any will work. I used a combo of Roma, Beefsteak, and (mostly) Cherry. OPTIONAL: Smoke a tray's worth of the tomatoes.

What makes a fancy ketchup? Fancy is a qualification from the USDA that certifies it as high-quality ketchup (Heinz is also considered Fancy ketchup). Fancy ketchup is a U.S. grade A ketchup that has good color, good consistency, good flavor, and is free from defects, according to the USDA.

Why is my homemade tomato sauce so watery? Tomatoes naturally contain lots of water, so cooking any tomato sauce for a long period of time will help eliminate some of the water content. The water will slowly but surely evaporate, leaving behind a thickened, full-bodied sauce with lots of flavor.

Why is my tomato ketchup watery? You probably didn't let it simmer long enough to allow the water to evaporate out. Because there is too much liquid in it. Either boil it down to reduce it or thicken it with cornflour.

What is the thickening agent in ketchup? With the second processing method high-pressure homogenisation is not used and thickening agents such as xanthan gum, pectin or starch (including modified starches) are used to obtain the required viscosity in the finished ketchup.

Why avoid Heinz tomato ketchup? It contains high quantities of sugar, salt, fructose, preservatives and corn syrup. All of these ingredients when combined together have an adverse effect on the body.

What is an unhealthy ingredient in ketchup? Two ingredients of concern in ketchup are salt and sugar. Per tablespoon, ketchup contains 4 grams of sugar and 190 milligrams of sodium. Although 4 grams of sugar doesn't seem like a lot, much of it comes from added sugar, as opposed to the natural sugar found in tomatoes.

Does ketchup have onion or garlic? Most ketchup has some onion and garlic in it. Even those that don't label onion and garlic separate sometimes lump it in with spices.

Which vinegar is used in ketchup? Distilled white vinegar is essential for ketchup's signature tanginess. Plus, it elongates the shelf life.

What is the first ingredient in ketchup? Tomato ketchup is made from tomatoes, sugar, and vinegar, with seasonings and spices.

What makes Heinz ketchup better? While the ingredients may be almost identical, the flavor profiles are absolutely different. That extra gram of sugar in Heinz is something that you can actually taste. Heinz ketchup is sweeter and more tomato-y, while Hunt's ketchup has a more vinegar-forward flavor.

Which preservative is used in tomato ketchup? The preservative sodium benzoate is added to the sauce so that it can be stored for a longer period of time. Store the sauce in a sterilized canning jar. The sauce can be kept for about 6 months but it's so delicious that it will finish before then!

What are the ingredients in rich tomato ketchup? Water, Tomato Paste (24.5%), Sugar, Lodized Salt, Acidity Regulator (260), Thickeners (1422 & 415), Dehydrated Onion, Dried Garlic, Preservative (211) And Mixed Spices.

What are the standards for tomato ketchup? Strained tomato juice or pulp along with spices, salt, sugar and vinegar is cooked or concentrated to the extent that ketchup and sauce contains not less than 12 percent tomato solids, 25 percent total solids and minimum acidity as 1% acetic acid.

What causes ketchup to ferment? *Fermented ketchup is a result of lactic acid fermentation. This means that a 6 carbon sugar like glucose are converted into cellular energy and lactate. This process does not require oxygen. Bacteria grows and produces lactic acid.

How to know if ketchup is bad? It's clear that ketchup has spoiled if you notice one or more of the following changes outlined by Okegbe: a moldy surface or container, a “sour, yeasty” smell and taste, and/or a bloated container, which is a sign that the ketchup has fermented and shouldn't be consumed.

What causes ketchup to spoil? The Role of Ingredients in Ketchup Preservation Its elevated acidity and sugar levels serve as innate preservatives. When the ketchup

bottle is unopened, refrigeration has a negligible impact on its longevity. However, once the bottle is opened, the introduction of air can expedite its deterioration.

Is ketchup a plastic? Ketchup is known as a Casson plastic, meaning it has a non-linear flow once the critical stress point is overcome. That's why you have to hit the bottle hard to get the ketchup to flow.

Was ketchup once made from fish? It originated as a thin soy sauce made from fermented fish most likely from a region called Tonkin, or in what we call Vietnam today. It was common throughout Southeast Asia in the 17th century. Ketchup was called kêtsiap, a Chinese word from the Amoy dialect that translates to "brine of pickled fish."

Why is Heinz ketchup not ketchup? The August 2015 ruling stemmed from a January 2015 controversy, in which another ketchup producer Osem argued that the composition of Heinz's product shouldn't legally be allowed to bear the label "ketchup" because it didn't contain the minimum amount of tomatoes to be legally called ketchup.

Why is ketchup so sweet? Cooks began adding more and more vinegar and sugar, each to balance out the other, until ketchup arrived at the sweet-and-sour flavor profile to which we're accustomed today. “The addition of sugar into tomato ketchup was a reflection of a trend favoring sweetness in American cookery,” Smith writes.

Is ketchup healthy? Compared with its competitor mayonnaise, ketchup has no fat and far fewer calories per tablespoon (mayo contains 103 calories, 12 grams fat). This makes it a healthier choice for those trying to cut out added calories. Processed and cooked tomatoes were also found to have high levels of the antioxidant lycopene.

Why is Heinz ketchup so watery? You may see a layer of water appear when ketchup is left alone for long periods. Excess water can eventually separate out of this molecular matrix on its own; this is known as leaching [1]. What you need to do is to shake to homogenize it – to redistribute the molecules of the ketchup.

Is ketchup ever made without tomatoes? The term ketchup does not inherently mean tomato ketchup. Originally, at the product's inception, tomatoes weren't used

at all and the term ketchup meant a vinegary sauce bought in a bottle. Some of the oldest known ketchup recipes are walnut ketchup and mushroom ketchup.

What is Chinese ketchup? Ketchup has a surprisingly long evolution that originated in China. The first version was based on pickled fish and looked more like a soy sauce – with a dark and thin texture. It was called “keh-jup” or “koe-cheup,” meaning “fish sauce.”

Who invented ketchup? Finally, in 1812, the first recipe for tomato-based ketchup debuted. James Mease, a Philadelphia scientist, is credited with developing the recipe.

What is white ketchup?

Why did McDonald's stop selling Heinz ketchup? In 1973, a tomato shortage hit Heinz hard, and the company decided its glass bottle business would take priority over bulk accounts. Needless to say, McDonald's' executives weren't happy with this and abruptly ended the exclusive agreement.

Why avoid Heinz ketchup? It contains high quantities of sugar, salt, fructose, preservatives and corn syrup. All of these ingredients when combined together have an adverse effect on the body.

Why is there a 57 on Heinz ketchup? The need for a number logo came after Heinz spotted a shoe company advertising 21 styles of shoes. On the Heinz UK website it states that five was Heinz's lucky number and seven was his wife's lucky number. He also believed that seven was a significant number for people of all ages.

Why do Japanese love ketchup? Not surprisingly, Japanese cuisine has used ketchup in seasoning various dishes, as this all-star American condiment lends a depth of flavor with its sweet-tangy profile. Therefore, you can find ketchup used in Japanese Curry, Omurice, Ebi Chili, and a pasta dish like Spaghetti Napolitan.

What makes ketchup umami? What does umami have to do with ketchup? It turns out ketchup is an umami speedball. Ripe tomatoes are full of L-glutamate, and so when all those tomatoes are cooked and reduced, and then cooked some more, the end result is a sauce brimming with delicious amino-acids.

Why is ketchup better cold? “You're not going to have pathogens grow in room-temperature ketchup, though some mold could grow there,” he said. “Mostly, people want to keep their ketchup cold because it's about keeping the taste, flavor, and longevity of the product.”

Slam Dunk Vol. 1: Explore the World of Basketball with Hanamichi Sakuragi

Q: What is Slam Dunk Vol. 1 about?

A: Slam Dunk Vol. 1 introduces the main protagonist, Hanamichi Sakuragi, a delinquent with a short temper and a love for basketball despite his lack of talent. As he joins the Shohoku High School basketball team, he faces challenges both on and off the court, including his rivalry with the talented Kaede Rukawa.

Q: What makes Slam Dunk Vol. 1 unique?

A: Slam Dunk is known for its blend of action, comedy, and romance. It follows the journey of a group of aspiring basketball players as they grow and overcome obstacles both individually and as a team. The manga's art style is dynamic and expressive, capturing the intensity and excitement of basketball.

Q: What is Hanamichi Sakuragi's character like?

A: Hanamichi is a hot-headed and impulsive character who is often quick to anger. However, he is also determined and loyal, and his passion for basketball gradually transforms him. He is not afraid to face challenges and is willing to improve his skills for the sake of the team.

Q: What themes are explored in Slam Dunk Vol. 1?

A: Slam Dunk explores themes such as friendship, perseverance, and the importance of hard work. It follows the characters as they learn the value of teamwork and the satisfaction of achieving their goals through determination and practice.

Q: Why should you read Slam Dunk Vol. 1?

A: Slam Dunk Vol. 1 is a captivating and entertaining introduction to the world of basketball. It features memorable characters, exciting matches, and a heartwarming story that will appeal to fans of sports anime and manga. With its blend of action, comedy, and drama, it is a must-read for anyone interested in the genre.

The Hybrid Synchronous Machine of the New BMW i3 and i8

The BMW i3 and i8 are two of the most technologically advanced cars on the market today. They are both powered by hybrid synchronous machines, which are a type of electric motor that is more efficient and powerful than traditional electric motors.

What is a hybrid synchronous machine?

A hybrid synchronous machine is a type of electric motor that combines the features of both synchronous and induction motors. Synchronous motors are more efficient and powerful than induction motors, but they are also more expensive and complex to build. Induction motors are less efficient and powerful than synchronous motors, but they are also less expensive and simpler to build.

How does a hybrid synchronous machine work?

A hybrid synchronous machine combines the best features of both synchronous and induction motors. It has a rotor that is made of a permanent magnet, which is surrounded by a stator that is wound with copper wire. The permanent magnet creates a magnetic field, which interacts with the magnetic field created by the stator to produce torque.

What are the benefits of a hybrid synchronous machine?

Hybrid synchronous machines offer a number of benefits over traditional electric motors, including:

- **Higher efficiency:** Hybrid synchronous machines are more efficient than traditional electric motors, which means that they can use less energy to produce the same amount of power.
- **Higher power density:** Hybrid synchronous machines have a higher power density than traditional electric motors, which means that they can produce

more power in a smaller package.

- **Lower cost:** Hybrid synchronous machines are less expensive to build than traditional electric motors, which makes them more affordable for consumers.

What are the applications of a hybrid synchronous machine?

Hybrid synchronous machines are used in a variety of applications, including:

- Electric vehicles
- Hybrid vehicles
- Wind turbines
- Industrial machinery

> *homemade tomato ketchup 30 delicious ketchup recipes*, *slam dunk vol 1*, *the hybrid synchronous machine of the new bmw i3 i8*

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