

<b>Innovation</b>
Show that I take risk of making mistakes because it's an important part of learning
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## New and Emerging Technologies

19/03/2020

What invention has helped to create all the products below?



### **Securing Knowledge**

Explore the development of technology over time.

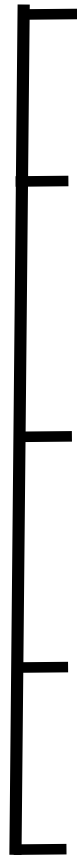
### **Developing Understanding**

Explain the significance of an influential invention

### **Achieve Excellence**

Evaluate the importance of a product and its influence over time.

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## New and Emerging Technologies

19/03/2020

Draw a vertical line down the side of your page.

This will be your time line.

Use the information on the board to complete your time line and complete the tasks set at the correct time on your time line.

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## New and Emerging Technologies

19/03/2020

Muscle Power is the only power source available.

Pre 18<sup>th</sup> Century



Animals and human are relied on to do and make everything.

But there are some things that can help.

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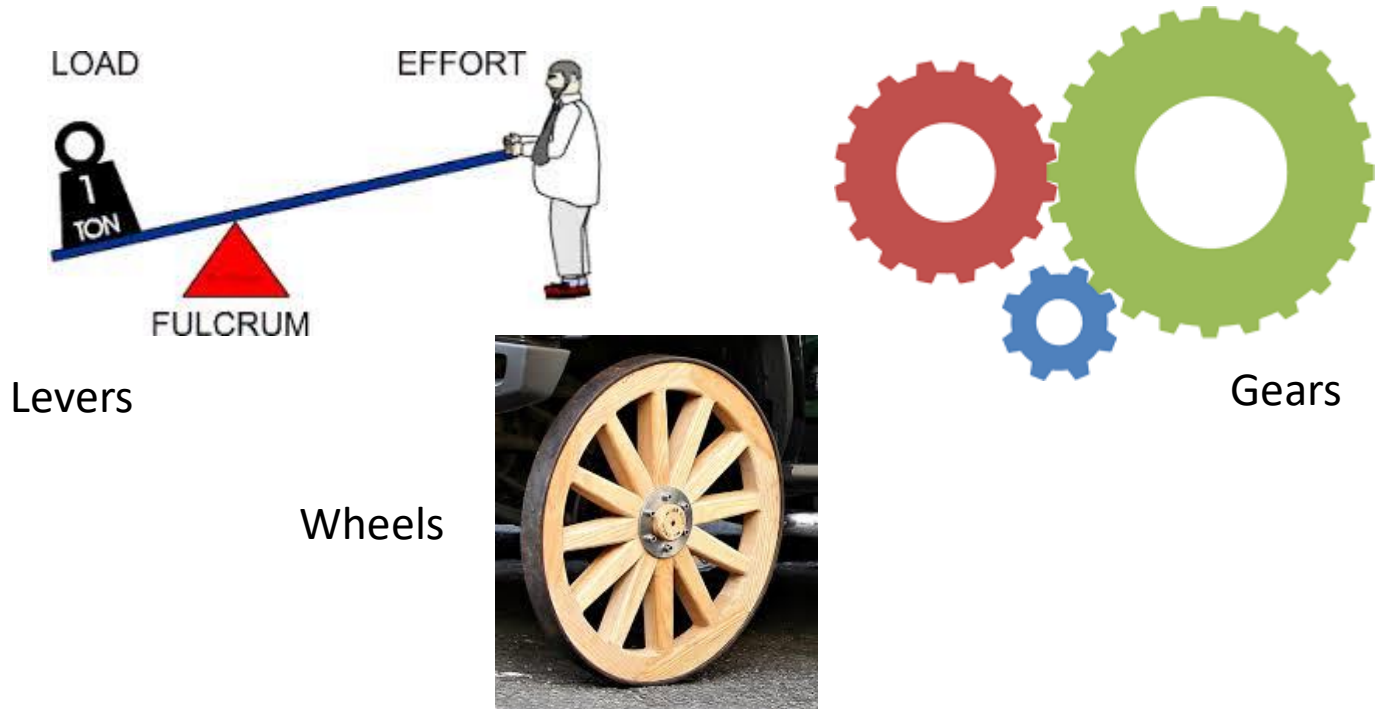
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## New and Emerging Technologies

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Question: For each of the technologies above name a modern product that still uses the old technology. Explain how it helps the modern product work.

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## New and Emerging Technologies

19/03/2020

Muscle Power is the only power source available.

Pre 18<sup>th</sup> Century

There were some problems with muscle power:

- Accuracy
- Speed
- Time
- Training

Write a sentence under each of these headings explaining the problem with relying on muscle power.

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## New and Emerging Technologies

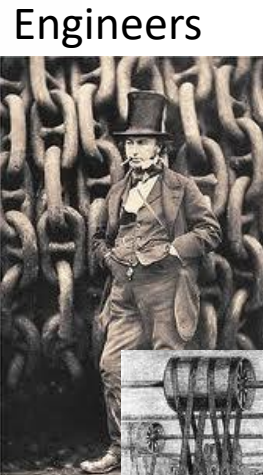
19/03/2020

1760 – 1840: Industrial Revolution

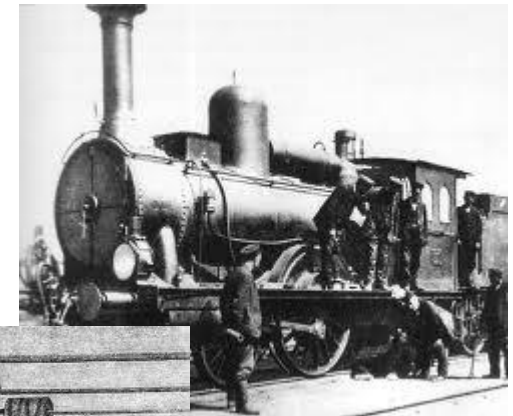
The age of steam and the engine. Everything went BIG:



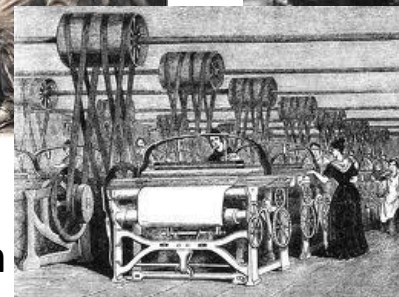
Large factories



Engineers



Powered transport



Mass Production

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### 1760 – 1840: Industrial Revolution

Answer the questions below using the information card on your table.

1. Name three areas of achievement during the industrial revolution.
2. Name two engineers who oversaw the “railway mania”
3. What method of power was adopted to replace water and horses?
4. What was the name of George Stevenson's train and when was it built?
5. What three industries were improved by “the factory age”?

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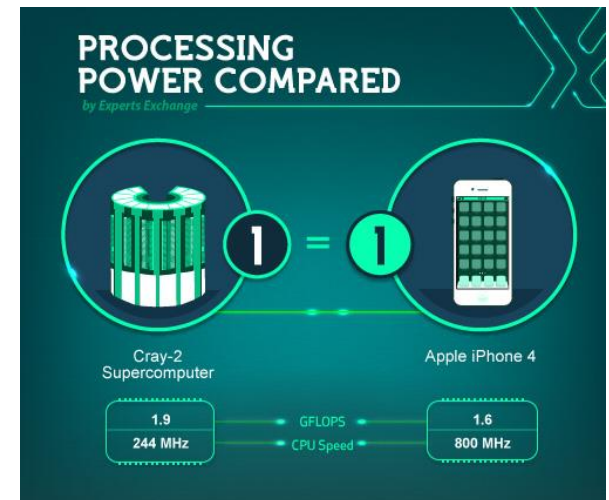
## New and Emerging Technologies

19/03/2020

### The Rise of the Machines

#### 1975 – Present: Digital Age

The first personal computer was built more than 40 years ago in 1975, but the 1990s was when significant numbers of people had access to computers on a regular basis. Over the past 20 years computers have integrated into our lives. Most people now carry a computer in their pockets as powerful as a 1980s supercomputer.



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## New and Emerging Technologies

19/03/2020

Dates: 1975 – present

Jack Kilby, Robert Noyce



Integrated Circuit Chip

Alan Turing



Computer

Tim Berners-Lee



Internet

Ray Tomlinson



Email

Discuss on your tables what order you think these products were created.

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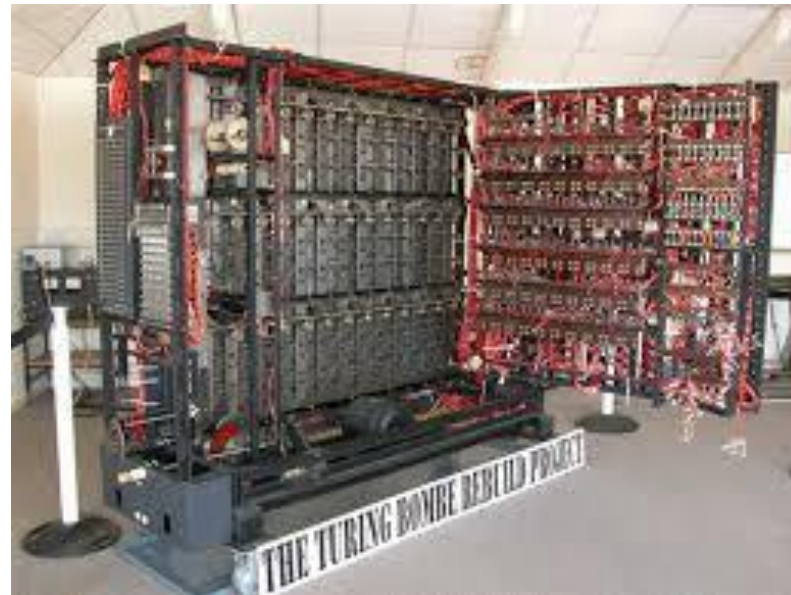
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# Alan Turing

# Computer



**1939**

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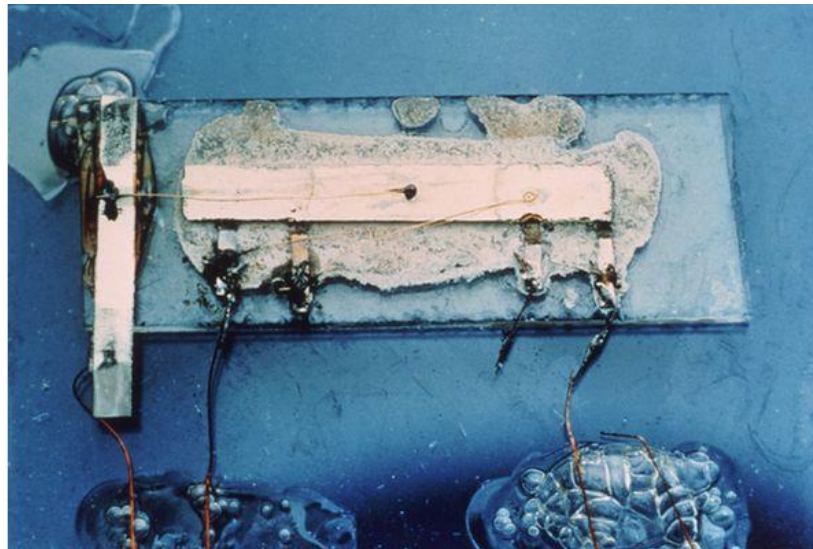
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Dates: 1975 – present

**Jack Kilby, Robert Noyce**

**Integrated Circuit Chip**

**1958**



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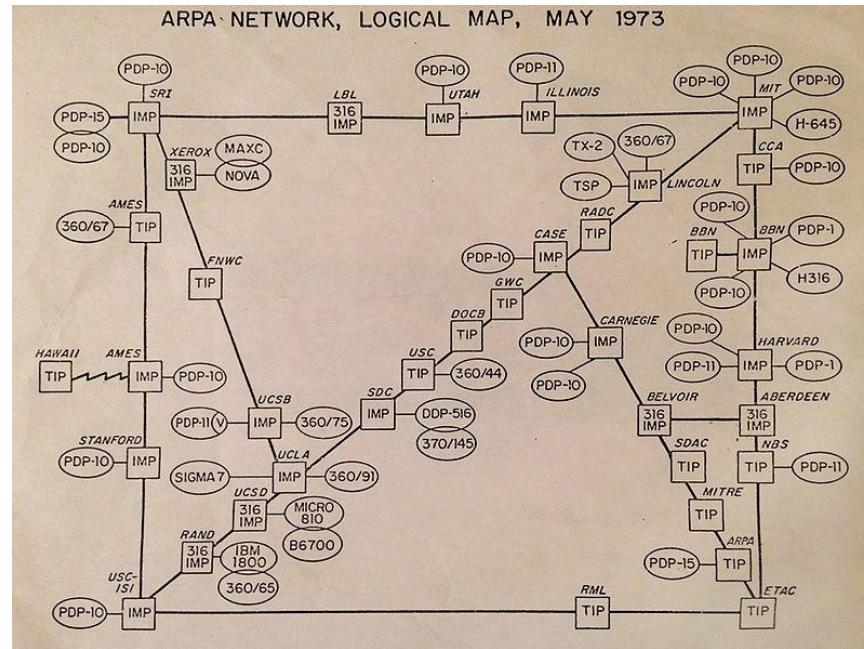
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Dates: 1975 – present

**Ray Tomlinson**

**Email**

**1971**



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19/03/2020

Dates: 1975 – present

**Tim Berners-Lee**

**Internet**



**1990**

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## Big Question

Which invention do you feel has significantly changed our lives?  
Justify your answer.

Discuss and debate on your table what you think is the most important invention of all time.

Write down in your books your groups decision and the reason why you have all agreed on this choice.

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