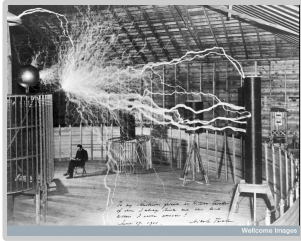
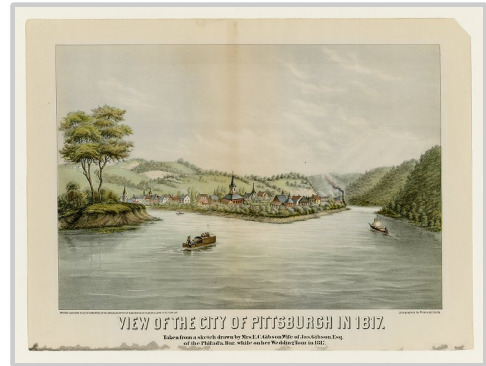


## *Matter and Energy*

### *The Second Scientific Revolution*



George Matthews, Plymouth State University  
2020



Even though the Scientific Revolution was complete by the end of the 18th Century, science had not yet had much impact on ordinary people's lives.

### *Accomplishments of the Scientific Revolution*

- Development of experimental methods -- formulation and testing of empirical hypotheses.

### *Accomplishments of the Scientific Revolution*

- A comprehensive mathematical model of mechanical and gravitational motion.

### *Accomplishments of the Scientific Revolution*

- Establishment of scientific societies devoted to the development and publication of scientific findings.

### *Accomplishments of the Scientific Revolution*

- A growing body of observational data in many areas as Europeans colonized and explored the rest of the world.

*Unknowns in 1800*

- What are material things made of?

*Unknowns in 1800*

- How do chemical reactions work?

*Unknowns in 1800*

- What is electricity?

*Unknowns in 1800*

- What is magnetism?

*Unknowns in 1800*

- What is the difference between animate and inanimate things?

*Unknowns in 1800*

- What is heat and why does it make some processes happen faster?

*Unknowns in 1800*

These questions would all be answered in the 19th Century with the development of scientific understanding of the material world.

The result...

*The Industrial Revolution*



*Pittsburgh 1900*

Scientific understanding of matter and energy would transform the world as never before in less than a century.

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