

# The Building of Ideas

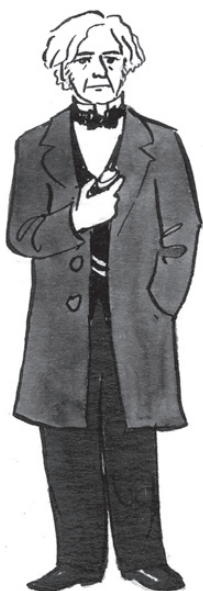
Albert Einstein was able to make his leap of understanding about mass and energy because of the many scientists before him who had worked hard, seen problems in a new light, and fought to make their ideas heard. Today's scientists continue to build on Einstein's work and the work of others to reveal new understanding about the world. In this activity, you will learn about some of the people who contributed to the concepts in and confirmation of  $E=mc^2$ .



Albert Einstein

## Procedure

- 1 Your team will be assigned to take notes on one of the following categories: energy, mass, light, velocity (speed of light squared), the development of the equation, and the confirmation of the equation.
- 2 Once you have received your assignment, you will watch the program and take notes on the areas listed below. Work out among your team members who will be responsible for each of the following areas:
  - Name of Scientist(s)
  - Nationality
  - Concept
  - Experiment
  - Time Period
  - Challenges Faced
- 3 After watching the program, summarize and record your notes onto time-line cards. When you have finished, tape your team's cards together.
- 4 When your cards are complete, clip them to the appropriate place on the time-line string.



Michael Faraday



Antoine-Laurent Lavoisier



Emilie du Châtelet