

**SCIENCE
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Great Moments in Science and Technology

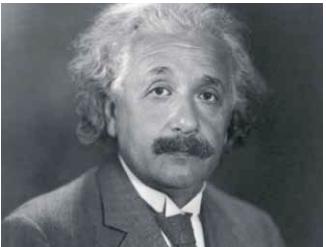
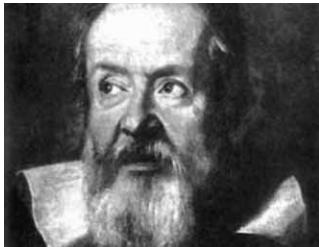
The viewer gains an insight into both the scientific and the socio-political background to an invention or discovery. Pioneers of science are portrayed, and the nature of their research and its further development through to the present are reconstructed.

Computer animations are used to make certain processes easier to understand and to show how various systems function. Re-enacted scenes illustrate the conditions under which the scientists worked and the approach they took. Particularly impressive are the historical film sequences, some of which date back to the early days of cinematography.

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| <p>01 Wilhelm C. Röntgen: X-rays</p> <p>02 The Lumière Brothers: Cinematography</p> <p>03 Otto Lilienthal: The Glider</p> <p>04 Werner von Siemens: The Electric Dynamo</p> <p>05 Nikolaus August Otto: The Four-stroke Engine</p> <p>06 Louis Daguerre: The Camera</p> <p>07 Karl Friedrich Drais: The Bicycle</p> <p>08 Heinrich Hertz: Electromagnetic Waves</p> <p>09 The Wright brothers: The Aeroplane</p> <p>10 Thomas Alva Edison: The Light Bulb</p> <p>11 Johann Philipp Reis, Alexander Graham Bell: The Telephone</p> <p>12 Samuel F. B. Morse: The Telegraph</p> <p>13 Guglielmo Marconi: Wireless Telegraphy</p> <p>14 George Stephenson: The Railway</p> <p>15 Thomas Alva Edison: The Phonograph</p> <p>16 Otto Hahn: Nuclear Fission</p> <p>17 Charles Townes, Theodore Maiman: Laser Technology</p> <p>18 Robert A. Watson-Watt: Radar</p> <p>19 Sergey Pavlovich Korolyov: The First Satellite in Space</p> <p>20 Hermann Oberth, Wernher von Braun: The Rocket</p> <p>21 Carl Benz, Gottlieb Daimler: The Automobile</p> <p>22 Karl Ferdinand Braun: The Cathode Ray Tube</p> <p>23 Shockley, Bardeen, Brattain: The Transistor</p> <p>24 Ernst Ruska: The Electron Microscope</p> <p>25 Konrad Zuse: The Computer</p> <p>26 Nipkow, Baird, Zworykin: The Development of Television</p> <p>27 The Cell: Building Block of Life</p> <p>28 Gregor Mendel: Classical Genetics</p> <p>29 James Watson, Francis Crick: Genetics</p> | <p>30 Louis Pasteur, Robert Koch: Bacteriology</p> <p>31 Edward Jenner, Paul Ehrlich, Emil von Behring: Vaccination</p> <p>32 Alexander Fleming, Howard Florey, Ernst Chain: Penicillin</p> <p>33 Horace Wells, William Morton, John Warren: Anaesthesia</p> <p>34 Joseph Lister, Ignaz Semmelweis: Antisepsis</p> <p>35 Ramón y Cajal: Neuron Theory</p> <p>36 Frederick Banting, Charles Best, John Macleod, James Collip: Insulin</p> <p>37 Karl Landsteiner: The ABO Blood Group System</p> <p>38 Paul Ehrlich, Elias Metschnikoff: The Immune System</p> <p>39 Karl Heinrich Bauer: The Mutation Theory of Cancer</p> <p>40 Henri Becquerel, Pierre and Marie Curie: Radioactivity</p> <p>41 Justus von Liebig: Agricultural Chemistry</p> <p>42 Fritz Haber, Carl Bosch: The Synthetic Ammonia Process</p> <p>43 Charles Goodyear, Fritz Hofmann: Rubber</p> <p>44 Hermann Staudinger: Polymer Chemistry</p> <p>45 Adolf von Baeyer, August Wilhelm Hofmann, William Henry Perkin: Dyestuff Chemistry</p> <p>46 August Kekulé: the Benzene Ring</p> <p>47 Linus Pauling: From the Atom to the Molecule</p> <p>48 Emil Fischer: Proteins</p> <p>49 John Dalton, Niels Bohr: The Atom</p> <p>50 Dmitri Mendeleev, Lothar Meyer: The Periodic Table</p> <p>51 Wilhelm Ostwald: Catalysis</p> |
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