



Orpiment



Gas generator



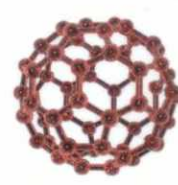
Cloud chamber



Spectroscope



Molecular model



Buckminsterfullerene



Nano gearbox



Medicinal herbs



Dodo



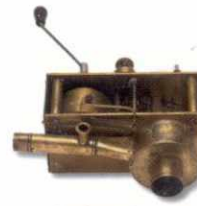
Darwin's microscope



Boisduval's false
acraea



Vesalius diagram



Antiseptic spray



Syringe



MRI scan



Abacus



Sundial



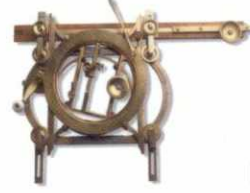
Napier's bones



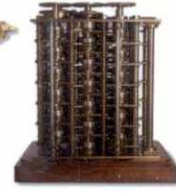
Mechanical calculator



De Dondi's clock



Ellipsograph



Babbage's Difference
Engine



Microprocessor

SCIENCE

THE ULTIMATE VISUAL GUIDE TO THE DISCOVERIES THAT CHANGED THE WORLD

YEAR BY YEAR

EDITOR-IN-CHIEF PROFESSOR ROBERT WINSTON



Hero's engine



Wimshurst machine



Watt's steam engine



Bubble chamber



Dry cell battery



Internal combustion engine



Solar cells



Plasma ball



Ptolemaic armillary
sphere



Compass



Newton's telescope



Flamsteed's star catalogue



Orrery



Telstar satellite



Hubble Space Telescope



GPS receiver



Pythagoras



Leonardo da Vinci



Galileo Galilei



Charles Darwin



Marie Curie



Albert Einstein



Richard Feynman



Jane Goodall



1

2.5 MYA–799 CE



010 BEFORE SCIENCE BEGAN

Features

- 016 Early Metallurgy
- 020 The Story of the Wheel
- 026 The Story of Geometry
- 034 Understanding Simple Machines



2

800–1542



044 EUROPEAN AND ISLAMIC RENAISSANCE

Features

- 054 Understanding Stars
- 062 The Story of Gears



3

1543–1788

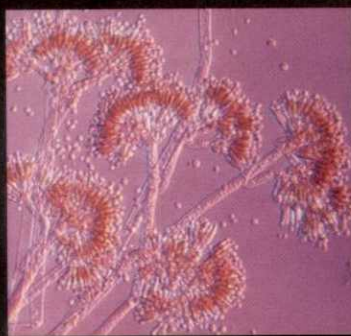


074 THE AGE OF DISCOVERY

Features

- 078 The Story of Anatomy
- 084 Measuring Instruments
- 090 Medicine
- 100 Understanding Planetary Orbits
- 108 The Story of Measuring Time
- 114 Microscopes
- 120 Understanding Newton's Laws of Motion
- 132 Navigational Tools
- 146 Meteorological Instruments

CONTENTS



4

1789–1894



158 **THE AGE OF REVOLUTIONS**

Features

- 164 Fossils
- 170 The Story of the Engine
- 174 Understanding Compounds and Reactions
- 184 The Story of Calculating Machines
- 194 Understanding Cells
- 204 Understanding Evolution
- 212 Surgery
- 218 The Story of Sound Recording

5

1895–1945



230 **THE ATOMIC AGE**

Features

- 234 Understanding Electromagnetic Radiation
- 240 Flying Machines
- 244 Understanding Relativity
- 250 Understanding Atomic Structure
- 260 The Story of Plastics
- 266 Understanding Radioactivity

6

1946–2013



276 **THE INFORMATION AGE**

Features

- 284 Understanding DNA
- 292 The Story of Oceanography
- 298 The Story of Space Exploration
- 316 Communication
- 326 Understanding Global Warming
- 334 The Story of Robotics
- 344 Understanding Cosmology

7

350 **REFERENCE**

Categories

- 352 Measurements and Units
- 355 Physics
- 358 Chemistry
- 360 Biology
- 364 Astronomy and Space
- 366 Earth Science
- 368 Who's Who
- 375 Glossary
- 382 Index
- 398 Acknowledgments