

Brief Table of Contents

- 1 Meet Planet Earth 2
 - 2 Global Tectonics: Our Dynamic Planet 30
 - 3 Atoms, Elements, Minerals, Rocks:
Earth's Building Materials 66
 - 4 Igneous Rocks: Products of Earth's
Internal Fire 98
 - 5 Magmas and Volcanoes 120
 - 6 Weathering and Soils 147
 - 7 Sediments and Sedimentary Rocks:
Archives of Earth History 172
 - 8 Metamorphism and Metamorphic Rocks:
New Rocks from Old 202
 - 9 How Rock Bends, Buckles, and Breaks
224
 - 10 Earthquakes and Earth's Interior 246
 - 11 Geologic Time and the Rock Record 276
 - 12 The Changing Face of the Land 302
 - 13 Mass Wasting 324
 - 14 Streams and Drainage Systems 352
 - 15 Groundwater 382
 - 16 Glaciers and Glaciation 410
 - 17 Atmosphere, Winds and Deserts 446
 - 18 The Oceans and Their Margins 474
 - 19 Climate and Our Changing Planet 508
 - 20 Earth Through Geologic Time 530
 - 21 Resources of Minerals and Energy 560
- Appendix A
Units and Their Conversions A1
- Appendix B
Tables of the Chemical Elements and
Naturally Occurring Isotopes A4
- Appendix C
Table of the Properties of Common
Minerals A7
- Glossary G1
- Selected References R1
- Credits C1
- Index I1