|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SES4U Expectations** | **Description** | **FBYC book Chapter** | **FBYC section** | **Page number** |
| **A. Scientific Investigation Skills and Career Exploration** |  |  |  |  |
| **A1** | **Scientific Investigation Skills** |  |  |  |
| A1.1 |  |  |  |  |
| A1.2 |  | Part 1: Foundations | Chapter 2. Dance of the Continents/Transforming our Ideas – Plate Tectonics –Tuzo Wilson | 25 |
|  |  | Part 1: Foundations | Chapter 4. Fossils and the Bush of Life/Tyrell’s Encounter – Joseph Tyrell | 51 |
| A1.3 |  |  |  |  |
| A1.4 |  |  |  |  |
| A1.5 |  |  |  |  |
| A1.6 |  |  |  |  |
| A1.7 |  |  |  |  |
| A1.8 |  |  |  |  |
| A1.9 |  |  |  |  |
| A1.10 |  |  |  |  |
| A1.11 |  |  |  |  |
| A 1.12 |  |  |  |  |
| A1.13 |  |  |  |  |
| **A2** | **Career Exploration** |  |  |  |
| A2.1 |  |  |  |  |
| A2.2 |  |  |  |  |
| **B. Astronomy** |  |  |  |  |
| **B1** | **Relating Science to Technology, Society and the Environment** |  |  |  |
| B1.1 |  |  |  |  |
| B1.2 |  |  |  |  |
| **B2** | **Developing Skills of Investigation and Communication** |  |  |  |
| B2.1 |  |  |  |  |
| B2.2 |  |  |  |  |
| B2.3 |  |  |  |  |
| B2.4 |  |  |  |  |
| B2.5 |  |  |  |  |
| B2.6 |  |  |  |  |
| **B3** | **Understanding Basic Concepts** |  |  |  |
| B3.1 |  |  |  |  |
| B3.2 |  |  |  |  |
| B3.4 |  |  |  |  |
| B3.5 |  |  |  |  |
| B3.6 |  |  |  |  |
| B3.7 |  |  |  |  |
| **C. Planetary Science** |  |  |  |  |
| **C1** | **Relating Science to Technology, Society and the Environment** |  |  |  |
| C1.1 |  |  |  |  |
| C1.2 |  |  |  |  |
| **C2** | **Developing Skills of Investigation and Communication** |  |  |  |
| C2.1 |  |  |  |  |
| C2.2 |  |  |  |  |
| C2.3 |  |  |  |  |
| C2.4 |  |  |  |  |
| C2.5 |  |  |  |  |
| C2.6 |  |  |  |  |
| **C3** | **Understanding Basic Concepts** |  |  |  |
| C3.1 |  |  |  |  |
| C3.2 |  |  |  |  |
| C3.3 |  |  |  |  |
| C3.4 |  |  |  |  |
| C3.5 |  |  |  |  |
| C3.6 |  |  |  |  |
| C3.7 |  |  |  |  |
| C3.8 |  |  |  |  |
| C3.9 |  |  |  |  |
| D. Recording Earth’s Geological History |  |  |  |  |
| **D1** | **Relating Science to Technology, Society and the Environment** |  |  |  |
| D1.1 |  | Part 1: Foundations | Chapter 4. Fossils/ Box 4 – atmosphere | 65 |
| D1.2 |  |  |  |  |
| **D2** | **Developing Skills of Investigation and Communication** |  |  |  |
| D2.1 |  |  |  |  |
| D2.2 |  | Part 3. Wealth and Health | Chapter 17. On Dangerous Ground/Box 11 – meteorites and impact structures | 333 |
| D2.3 |  | Part 1: Foundations | Chapter 4. Fossils and the Bush of Life – fossils | 51 |
| D2.4 |  |  |  |  |
| D2.5 |  | Part 1: Foundations | Chapter 1. On the Rocks/Bending and Breaking… - faults, unconformities | 16 |
| D2.6 |  |  |  |  |
| D2.7 |  | Part 1: Foundations | Chapter 4. Fossils/ Box 4 – atmosphere | 65 |
| **D3** | **Understanding Basic Concepts** |  |  |  |
| D3.1 |  | Part 1: Foundations | Chapter3. Fossils – evolution of life | 51 |
| D3.2 |  | Part 1: Foundations | Chapter 2. Dance of the Continents/Magnetic Proof – Plate Tectonics | 25 |
| D3.3 |  | Part 1: Foundations | Chapter3. Fossils – fossilization processes | 51 |
| D3.4 |  | Part 1. Foundations | Chapter 3. It’s About Time/ The Dating Game – age of the Earth - determination | 41 |
| D3.5 |  | Part 1. Foundations | Chapter 3. It’s About Time/ The Dating Game – age of the Earth - determination | 41 |
| D3.6 |  | Part 1: Foundations | Chapter 2. Dance of the Continents/Magnetic Proof – Plate Tectonics | 25 |
| D3.7 |  | Part 1. Foundations | Chapter 3. It’s About Time/ Discovering Deep Time – age of the Earth | 39 |
| **E. Earth Materials** |  |  |  |  |
| **E1** | **Relating Science to Technology, Society and the Environment** |  |  |  |
| E1.1 |  | Part 3. Wealth and Health | Chapter 12. Forging a Nation/In Hot Water - resources | 247 |
|  |  | Part 3. Wealth and Health | Chapter 13. Having the Energy – petroleum, gas, nuclear, electricity | 261 |
|  |  | Part 3. Wealth and Health | Chapter 14. Building Canada – industrial materials | 278 |
| E1.2 |  | Part 3. Wealth and Health | Chapter 12. Forging a Nation/In Hot Water - resources | 247 |
|  |  | Part 3. Wealth and Health | Chapter 13. Having the Energy – petroleum, gas, nuclear, electricity | 261 |
|  |  | Part 3. Wealth and Health | Chapter 14. Building Canada – industrial materials | 278 |
|  |  | Part 3 Wealth and Health | Chapter 18. Environmental Challenges | **338** |
| **E2** | **Developing Skills of Investigation and Communication** |  |  |  |
| E2.1 |  |  |  |  |
| E2.2 |  | Part 3. Wealth and Health | Chapter 12. Forging a Nation/In Hot Water - resources | 247 |
|  |  | Part 3. Wealth and Health | Chapter 13. Having the Energy – petroleum, gas, nuclear, electricity | 261 |
|  |  | Part 3. Wealth and Health | Chapter 14. Building Canada – industrial materials | 278 |
| E2.3 |  | Part 1: Foundations | Chapter1. On the Rocks/Box 1 – minerals | 19 |
| E2.4 |  | Part 1: Foundations | Chapter 1. On the Rocks/Hot Rocks – igneous | 6 |
| E2.5 |  | Part 1: Foundations | Chapter1. On the Rocks/Cool Rocks – sedimentary | 9 |
| E2.6 |  | Part 1: Foundations | Chapter1. On the Rocks/In a Pressure Cooker – metamorphic | 15 |
| E2.7 |  |  |  |  |
| E2.8 |  |  |  |  |
| **E3** | **Understanding Basic Concepts** |  |  |  |
| E3.1 |  | Part 1: Foundations | Chapter1. On the Rocks/Box 1 – minerals | 19 |
| E3.2 |  | Part 1: Foundations | Chapter 1. On the Rocks/Hot Rocks - igneous | 6 |
| E3.3 |  | Part 1: Foundations | Chapter1. On the Rocks/Cool Rocks - sedimentary | 9 |
| E3.4 |  | Part 1: Foundations | Chapter1. On the Rocks/In a Pressure Cooker - metamorphic | 15 |
| E3.5 |  | Part 3. Wealth and Health | Chapter 18. Environmental Challenges/A lot of Garbage | 341 |
| **F. Geological Processes** |  |  |  |  |
| **F1.** | **Relating Science to Technology, Society and the Environment** |  |  |  |
| F1.1 |  |  |  |  |
| F1.2 |  | Part 1: Foundations | Chapter 2. Dance of the Continents/Magnetic Proof – Plate Tectonics | 25 |
|  |  | Part 1: Foundations | Chapter3. It’s About Time/ Box 3 – mapping technologies, Lithoprobe | 45 |
| F1.3 |  | Part 3 Wealth and Health | Chapter 17. On Dangerous Ground/Natural Hazards – landslides | 321 |
| **F2** | **Developing Skills of Investigation and Communication** |  |  |  |
| F2.1 |  |  |  |  |
| F2.2 |  |  |  |  |
| F2.3 |  |  |  |  |
| F2.4 |  | Part 3 Wealth and Health | Chapter 17. On Dangerous Ground/Natural Hazards – earthquakes | 323 |
| F2.5 |  | Part 3 Wealth and Health | Chapter 17. On Dangerous Ground/Natural Hazards – earthquakes | 323 |
| F2.6 |  | Part 1: Foundations | Chapter 1. On the Rocks/Box 2 – structure of the Earth | 22 |
| F2.7 |  | Part 3 Wealth and Health | Chapter 17. On Dangerous Ground/Natural Hazards – landslides | 321 |
| F2.8 |  |  |  |  |
| **F3** | **Understanding Basic Concepts** |  |  |  |
| F3.1 |  | Part 1: Foundations | Chapter 1. On the Rocks/Box 2 – structure of the Earth | 22 |
| F3.2 |  | Part 3 Wealth and Health | Chapter 17. On Dangerous Ground/Natural Hazards – earthquakes | 323 |
| F3.3 |  | Part 3 Wealth and Health | Chapter 17. On Dangerous Ground/Natural Hazards – earthquakes | 323 |
| F3.4 |  | Part 1: Foundations | Chapter 4. Fossils/Box 5 – Landforms | 69 |
| F3.5 |  |  |  |  |
| F3.6 |  |  |  |  |
| F3.7 |  |  |  |  |
| F3.8 |  | Part 3 Wealth and Health | Chapter 17. On Dangerous Ground/Eruptions – volcanoes | 327 |
| F3.9 |  |  |  |  |