



#### 1<sup>st</sup> Quarter (41days)

**Resources: HSP Science** Video Lessons: EDUSMART, <http://www.crickweb.co.uk/ks2science.html>

| Week | Unit/Lesson  | Learning Objectives  | Vocabulary Terms  | Reporting Categories ( TEKS SEs)   |
|------|--|--|---|--|
| 1    | Introductory Chapter:<br>Lesson 1 through 3  | What Tools Do Scientists use / What Inquiry skills do scientists use/ What is Scientific Method? | investigation, inquire, experiment  | 4.1 A, B; 42A , B, C , D , E 4.4A<br>Video Lessons:  |
| 2    | Introductory Chapter: Safety in Science Scientific Tools<br><br>Chapter Review/ Test preparation | Lab. Safety Rules<br><br>Scientific Tools and their uses   | Microscope, balance, spring scale, thermometer, beaker, ruler, hand lens, collecting net  | 4.1 A, B 4.4A<br>Video Lessons: EDUSMART   |
| 3    | Experiment using Scientific Method Review/ Test  | Describe, plan and implement a simple experimental investigation testing one variable            | investigation, inquire, experiment<br>scientific method,<br><del>synthesis evidence</del> | 4.2A , B, C , D , E; 4.2 F, G  |
| 4    | CH. 1 Classifying Living Things Lesson 02<br>Chapter Review/ Test Preparation                    | What are vertebrates and invertebrates? Classification of animals                                | Vertebrate, invertebrate  | 4.9A<br><a href="http://www.crickweb.co.uk/ks2science.html">http://www.crickweb.co.uk/ks2science.html</a>  |
| 5    | Ch 03: Plant Growth & Reproduction Lessons 1 – and 2   | How do plants grow?<br>How do plants reproduce?<br><br><del>Technology Farms of the Future</del> | Vascular tissue, xylem, phloem, photosynthesis spore, gymnosperm,                         | 3.10C, 4.9D<br><a href="https://studyjams.scholastic.com/studyjams/jams/science/in">https://studyjams.scholastic.com/studyjams/jams/science/in</a> |
| 6    | Ch 04: Animal Growth & Heredity Lessons 1 through 3<br>Chapter Review/ Test preparation          | How are characteristics inherited?<br>What other factors affect characteristics?                 | Life cycle, inherited trait, dominant trait, recessive trait, gene                        | 4.10A, B, C<br><a href="http://www.crickweb.co.uk/ks2science.html">http://www.crickweb.co.uk/ks2science.html</a>                                   |

## Scope and Sequence 2020-2021



**DARUL ARQAM  
ACADEMY  
SOUTHWEST**

### 4th Grade Science

Revised 06/1/2020



|          |  |  |   |  |
|----------|--|--|---|--|
| <b>7</b> | CH. 5: Energy & Ecosystems<br>Lessons 1 through 2                    | Carbon dioxide-Oxygen Cycle  | Transpiration,<br>photosynthesis,<br>chlorophyll, producer,<br>consumer ecosystem,              | 3.10C, 4.9D<br><a href="https://studyjams.scholastic.com/studyjams/jams/science/index.htm">https://studyjams.scholastic.com/studyjams/jams/science/index.htm</a> |
| <b>8</b> | Ch 6: Ecosystems and Change<br>Lessons 1 through 3<br><br>DCA Review | Description and examples of<br>population, community, adaption,<br>symbiosis Predator-prey<br>relationships<br>Pollution, conservation and reclamation | Population,<br>community,<br>competition, adaption,<br>symbiosis, predator,<br>prey succession, | 3.10C, 4.9D<br><a href="https://studyjams.scholastic.com/studyjams/jams/science/index.htm">https://studyjams.scholastic.com/studyjams/jams/science/index.htm</a> |
| <b>9</b> | <b>1st DCA</b>   |  |   |  |

1

### 2nd Quarter (45 days)

#### Resources:

| Week     | Unit/Lesson   | Learning Objectives   | Vocabulary Terms   | Reporting Categories ( TEKS  |
|----------|---|---|--|--|
| <b>1</b> | Ch. 7 : The Rock Cycle<br>Lessons 1 through 3             | Earth's Landforms<br>What causes changes to Earth's<br>landforms? How movement of<br>Crust changes Earth? | Mineral, streak, luster,<br>hardness rock, igneous<br>rock, deposition,<br>sedimentary rock, | 4.7A, B, C; 3.7B<br><a href="https://www.bbc.co.uk/bitesize/topics/z9bbkqt/resources/1">https://www.bbc.co.uk/bitesize/topics/z9bbkqt/resources/1</a>            |
| <b>2</b> | Ch 08: Fossils Lessons 1 through 2                        | What do fossils show about Earth's<br>history? How fossils are like today's                               | Fossil, mold, cast, index<br>fossil paleontology   | 4.7A, D  |
| <b>3</b> | CH. 08: Changes to Earth's<br>Surface Lessons 1 through 3 | Earth's Landforms<br>What causes changes to Earth's<br>landforms? How movement of<br>Crust changes Earth? | Landform, topography,<br>glacier, sand dune<br>delta, sinkhole<br>plate, earthquake,         | 3.10C, 4.9D<br><a href="https://studyjams.scholastic.com/studyjams/jams/science/index.htm">https://studyjams.scholastic.com/studyjams/jams/science/index.htm</a> |
| <b>4</b> | CH. 9 : Using Resources Lessons<br>1 and 2                | How do people use soil & water<br>resources? How to conserve<br>resources?                                | Renewable<br>resource,<br>nonrenewable   | 4.7A, C  |

Scope & Sequence 2020-2021  
4<sup>th</sup> Grade Science



Revised: 06/1/2020

|   |   |   |  |  |
|---|---|---|--|--|
| 5 | Ch 9: Weather & the Water Cycle Lessons 1 through 3 | What causes weather?<br>What conditions affect water cycle?<br>How can patterns in weather be observed? | Atmosphere, troposphere, air pressure, local wind, prevailing wind<br>water cycle, evaporation | 3.10C, 4.9D<br><a href="https://studyjams.scholastic.com/studyjams/jams/science/index.htm">https://studyjams.scholastic.com/studyjams/jams/science/index.htm</a> |
| 6 | Ch 12 : Earth's Oceans Lessons 1 through 3          | What are the oceans like? How does ocean water move?  | Salinity, water pressure, continental shelf, continental slope, abyssal plain                  | 4.8C   |
| 7 | Chp 12: Earth's Oceans L3                           | What forces shape shoreline?  | shore, headland, tide pool, jetty  |  |
| 8 | <b>DCA Review</b>                                   |   |  |  |
| 9 | <b>DCA</b>  |   |  |  |

# Scope & Sequence 2020-2021

## 4<sup>th</sup> Grade Science



### 3rd Quarter (47 days)

#### Resources:

| Week | Unit/Lesson                                      | Learning Objectives   | Vocabulary Terms  | Reporting Categories ( TEKS SEs)   |
|------|--|---|---|--|
| 1    | CH 10 Planets, Earth, Sun and Moon Lesson 1 to 3 | How does Earth's orbit affect seasons? How do Earth and Moon compare? What makes our solar system | Sun, rotate, axis, revolve, orbit, equator<br>moon, crater, moon phase, eclipse, refraction<br>star, solar system, constellation, planet universe, galaxy | 3.10C, 4.9D<br><a href="https://studyjams.scholastic.com/studyjams/jams/science/index.htm">https://studyjams.scholastic.com/studyjams/jams/science/index.htm</a> |
| 2    | Ch 11: Properties of Matter Lessons 1 through 2  | Structures of matter<br>Physical properties & changes   | Volume, atom, molecule, nucleus, element, periodic table<br>physical change, density, mixture, solution   | 3.10C, 4.9D<br><a href="https://studyjams.scholastic.com/studyjams/jams/science/index.htm">https://studyjams.scholastic.com/studyjams/jams/science/index.htm</a> |
| 3    | Continue CH 11 Properties of Matter Lesson 3     | Chemical properties & changes<br>Kinetic & potential energy                                       | Combustibility, reactivity<br>energy, kinetic energy,   | 4.5C, D  |
| 4    | CH. 15 Energy Lesson 1                           | How is Heat transferred   | potential energy, energy transfer   | 4.6A   |
| 5    | CH 15: ELECTRICITY Lessons 1 & 2                 | How are Electricity & magnetism related? Static & current electricity                             | Electricity, electromagnet<br>static electricity, electric current, current electricity, conductor, insulator   | 4.8A, B<br>4.9C  |
| 6    | Continue CH 15 Electricity Lessons 3 and 4       | Electric circuits   | Electric circuit, series circuit, parallel circuit  | 3.10C, 4.9D<br><a href="https://studyjams.scholastic.com/studyjams/jams/science/index.htm">https://studyjams.scholastic.com/studyjams/jams/science/index.htm</a> |
| 7    | CH 13 and 14: Sound and Light Lessons 1 & 2      | What is sound? What is light?   | Vibration, volume, pitch, frequency<br>reflection, opaque, translucent, transparent, refraction, convex lens, concave lens                                | 4.6A   |
| 8    | DCA Review                                       | Review and Assessment   |   |  |
| 9    | DCA  |   |   |  |

# Scope and Sequence 2020-2021

## 4<sup>th</sup> Grade Science



Revised 06/1/2020

| 4th Quarter (46 Days) |   |  |  |  |
|-----------------------|---|--|--|--|
| Resources:            |   |  |  |  |
| Week                  | Unit/Lesson                             | Learning Objectives  | Vocabulary Terms   | Reporting Categories ( TEKS SEs)   |
| 1                     | Review previous Chapters and Vocabulary |  |  |  |
| 2                     | Chp 16 Forces L1, L2 and L3             | What forces affect objects on Earth every day?<br>Balanced & Unbalanced Forces<br>What is work and how is it measured? | Force, friction, gravity, gravitational force, magnetic, magnetic force<br>balanced forces, unbalanced forces, net force, buoyant force<br>Work, simple machine, lever, fulcrum, wheel and axe, pulley, inclined plane | 3.10C, 4.9D<br><a href="https://studyjams.scholastic.com/studyjams/jams/science/index.htm">https://studyjams.scholastic.com/studyjams/jams/science/index.htm</a> |
| 3                     | Ch. 17 Simple Machines                  | Types of Simple Machines   | Wedge, Inclined Plane, Pulley,   | 3.10C, 4.9D<br><a href="https://studyjams.scholastic.com/studyjams/jams/science/index.htm">https://studyjams.scholastic.com/studyjams/jams/science/index.htm</a> |
| 4                     | DCA review practice                     | Review   | Review   |  |
| 5                     | DCA                                     |  |  |  |
| 6                     | STAAR review practice                   | Review   | Review   |  |
| 7                     | STAAR                                   |  |  |  |
| 8                     | Step Up                                 |  |  |  |
| 9                     | End of Year Activities                  |  |  |  |





