Course Syllabus

Description:
The Elementary Science K-5 courses will spark curiosity in students and build a solid foundation in concepts across many types of sciences including Earth Science, Life Science, and Physical Science. Students will engage in science and engineering practices by asking questions, defining problems, developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematics and informational technology, constructing explanations, designing solutions, engaging in scientific arguments using evidence, and communicating results. A framework of active student learning supports and allows students to engage, explore, explain, elaborate, and evaluate throughout all courses. This dynamic format will help students build their own understanding from experiences and new ideas in order to facilitate a better understanding of the world around them.

Estimated Completion Time: 36 weeks

Major Topics and Concepts:
Module 01: The Senses

- 01.00 Module One Pretest
- 01.01 The Five Senses
- 01.02 What is that I see?
- 01.03 What is that I feel?
- 01.04 What is that I hear?
- 01.05 What is that I smell?
- 01.06 What is that I taste?
- 01.07 Module One Review And Discussion-Based Assessment
- 01.08 Module One Assessment

Module 02: Using The Five Sense

- 02.00 Module Two Pretest
- 02.01 Camping With Friends
- 02.02 Keeping Score
- 02.03 Exploring With My Senses
- 02.04 Building A Campfire
- 02.05 Camping Crafts
- 02.06 Hunting For Treasures
- 02.07 Time To Go Home
- 02.08 Module Two Review And Discussion-Based Assessment
- 02.09 Module Two Assessment

Module 03: Properties Of Objects

- 03.00 Module Three Pretest
- 03.01 Sally Sorter
- 03.02 Crafts With Sally
- 03.03 Colorful Sorting
- 03.04 Hot or cold, behold!
- 03.05 Sorting By Weight
- 03.06 Feel it! Sort it!
- 03.07 Module Three Review And Discussion-Based Assessment
- 03.08 Module Three Assessment

Module 04: Sound

- 04.00 Module Four Pretest
- 04.01 Did you hear that sound?
- 04.02 Good Vibrations
- 04.03 Let's Make Music
- 04.04 Feel The Sound
- 04.05 Module Four Review And Discussion-Based Assessment
- 04.06 Module Four Assessment

Module 05: Motion Of Objects

- 05.00 Module Five Pretest
- 05.01 Get Into Motion
- 05.02 Speeds Of Movement
- 05.03 Ready, set, go!
- 05.04 Investigating Movement
- 05.05 Reporting On Movement
- 05.06 Module Five Review
- 05.07 Module Five Assessment

Module 06: Pushes And Pulls

- 06.00 Module Six Pretest
- 06.01 Where is that?
- 06.02 Making Objects Move
- 06.03 Let's move it!
- 06.04 Fast and slow, away we go!
- 06.05 Test It Out
- 06.06 Everyday Pushes And Pulls
- 06.07 Module Six Review And Discussion-Based Assessment
- 06.08 Module Six Assessment

Module 07: Gravity

- 07.00 Module Seven Pretest
- 07.01 Why is it falling?
- 07.02 Free Falling
- 07.03 Spot The Supports
- 07.04 Researcher For A Day
- 07.05 Finding A Force
- 07.06 Alien Invasion
- 07.07 Module Seven Review And Discussion-Based Assessment
- 07.08 Module Seven Assessment

Module 08: Day And Night Sky

- 08.00 Module Eight Pretest
- 08.01 Good Morning
- 08.02 Good Night
- 08.03 Like Night And Day
- 08.04 Dark And Light Sky
- 08.05 After Every Night Comes Day
- 08.06 The Big, Yellow Circle In The Sky
- 08.07 The Sun Is Shining
- 08.08 My Day, Sunrise To Sunset
- 08.09 The Moon, Earth's Night Light
- 08.10 The Moon At Night
- 08.11 Space rocks!
- 08.12 Where did the moon go?
- 08.13 Making Models
- 08.14 Module Eight Review And Discussion-Based Assessment
- 08.15 Module Eight Assessment

Module 09: Size and Distance

- 09.00 Module Nine Pretest
- 09.01 Big Or Small
- 09.02 Shrinking Sky
- 09.03 Look At This Space Stuff
- 09.04 Sizing Up Stars And Sun
- 09.05 Near And Big, Far And Small
- 09.06 My View From The Ground
- 09.07 Who is really bigger?
- 09.08 Sun, The Closest Star
- 09.09 Module Nine Review And Discussion-Based Assessment
- 09.10 Module Nine Assessment

Module 10: Animals

- 10.00 Module Ten Pretest
- 10.01 Animals, animals, everywhere!
- 10.02 Animals Are Alike
- 10.03 Spot The Difference
- 10.04 Sticking Together
- 10.05 Fly, Swim, And Slither
- 10.06 Alike But Different
- 10.07 Animal Differences
- 10.08 Animal Look-Alike
- 10.09 Module Ten Review And Discussion-Based Assessment
- 10.10 Module Ten Assessment

Module 11: Plants

- 11.00 Module Eleven Pretest
- 11.01 Seeing Green At The Zoo
- 11.02 From Seed To Stem
- 11.03 How are they different?
- 11.04 How are they alike?
- 11.05 Sort it! Plant it!
- 11.06 These plants look alike!
- 11.07 These plants look different!
- 11.08 Plants can be models, too!
- 11.09 Module Eleven Review
- 11.10 Module Eleven Assessment

Module 12: Animals and Plants

- 12.00 Module Twelve Pretest
- 12.01 Plants And Animals Are Alike
- 12.02 We are different as can be!
- 12.03 Real or imaginary?
- 12.04 Walking, Talking Plants

- 12.05 Walking, Talking Animals
- 12.06 Module Twelve Review And Discussion-Based Assessment
- 12.07 Module Twelve Assessment

Course Assessment and Participation Requirements:
To achieve success, students are expected to submit work in each course weekly. Students can learn at their own pace; however, “any pace” still means that students must make progress in the course every week. To measure learning, students complete self-checks, practice lessons, multiple choice questions, projects, discussion-based assessments, and discussions. Students are expected to maintain regular contact with teachers; the minimum requirement is monthly. When teachers, students, and parents work together, students are successful.

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