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 One: Forces And Motion

- 01.00 Module One Pretest
- 01.01 Fast Or Slow
- 01.02 Moving With Toys
- 01.03 Move it your way!
- 01.04 What can I observe?
- 01.05 Forces Make Things Move
- 01.06 May The Force Be With You™
- 01.07 Forces On The Move
- 01.08 Playing With Forces

- 01.09 Change The Motion
- 01.10 Sports In Motion
- 01.11 Changes In Motion
- 01.12 All About Forces
- 01.13 Module One Review and Discussion-Based Assessment
- 01.14 Module One Assessment

Module Two: Space

- 02.00 Module Two Pretest
- 02.01 Day And Night, What A Sight
- 02.02 Super Star, The Sun
- 02.03 I See You Way Out There
- 02.04 Twinkle, Twinkle
- 02.05 Tools That Help Us see
- 02.06 Keep On Shining Sun
- 02.07 Dangerous Sun
- 02.08 The good and bad sun!
- 02.09 Safety First
- 02.10 Module Two Review and Discussion-Based Assessment
- 02.11 Module Two Assessment

Module Three: Earth

- 03.00 Module Three Pretest
- 03.01 Exploring Our Earth
- 03.02 Nature Detective
- 03.03 Fast And Slow Changes
- 03.04 Fast Changes In Nature
- 03.05 Fast Changes To Earth's Surface
- 03.06 Slow Surface Changes
- 03.07 Don't get blown away!
- 03.08 Change In Weather
- 03.09 Module Three Review

- 03.10 Module Three Assessment

Module Four: Gravity

- 04.00 Module Four Pretest
- 04.01 Push it! Pull it!
- 04.02 Gravity everywhere!
- 04.03 Got gravity?
- 04.04 Module Four Review and Discussion-Based Assessment
- 04.05 Module Four Assessment

Module Five: Earth's Surface

- 05.00 Module Five Pretest
- 05.01 Earth Explorer
- 05.02 Observing Earth's Surface
- 05.03 Scientific Sharing
- 05.04 Water, Water, Everywhere
- 05.05 Rocky Earth
- 05.06 Super Natural Soil
- 05.07 Living Organisms Are Alive
- 05.08 Surface Exploration
- 05.09 Module Five Review
- 05.10 Module Five Assessment

Module Six: Plants

- 06.00 Module Six Pretest
- 06.01 Lily's World Of Plants
- 06.02 Parts Of A Plant
- 06.03 Different Plants, Different Parts
- 06.04 Similar Plants, Similar Parts
- 06.05 Plant Arts And Crafts
- 06.06 All About Plants
- 06.07 Module Six Review and Discussion-Based Assessment
- 06.08 Module Six Assessment

Module Seven: Basic Needs

- 07.00 Module Seven Pretest
- 07.01 Back To Basics
- 07.02 Water Works
- 07.03 The Need To Feed
- 07.04 The Air We Breathe
- 07.05 Give Me Some Space
- 07.06 What's missing?
- 07.07 Hungry, Hungry Puppies
- 07.08 Copycat
- 07.09 Module Seven Review
- 07.10 Module Seven Assessment

Module Eight: Water

- 08.00 Module Eight Pretest
- 08.01 The Wonders Of Water
- 08.02 What would you do without water?
- 08.03 The Rules Of The Pool
- 08.04 Module Eight Review and Discussion-Based Assessment
- 08.05 Module Eight Assessment

Module Nine: Parents And Offspring

- 09.00 Module Nine Pretest
- 09.01 Where are my parents?
- 09.02 I Got It From My Parents
- 09.03 We look the same!
- 09.04 We look different, too!
- 09.05 Module Nine Review and Discussion-Based Assessment
- 09.06 Module Nine Assessment

Module Ten: Living And Nonliving

- 10.00 Module Ten Pretest
- 10.01 Making Observations At The Zoo

- 10.02 What color is it?
- 10.03 Same Shape, Different Shape
- 10.04 How does it feel?
- 10.05 Measuring Tall Or Short
- 10.06 Weighing In
- 10.07 Hot or cold?
- 10.08 Sink or float?
- 10.09 Floating By The Pool
- 10.10 Is it living?
- 10.11 No Food, No Problem
- 10.12 Environments
- 10.13 What's the difference?
- 10.14 Shedding Some Skin
- 10.15 Living or not?
- 10.16 Sorting It Out
- 10.17 Module Ten Review and Discussion-Based Assessment
- 10.18 Module Ten 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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