

Mrs. Cherkaoui

Atlantic Middle School

86 Hollis Ave.

North Quincy, MA 02171

Materials: “Longman Science”, “Access Science” and “Language Central”

This course will utilize a complete science program developed specifically for the unique needs of English Language Learners. Each lesson will provide clear language objectives along with the science content appropriate to the grade level and ability of students. Each lesson will incorporate academic language, word analysis, critical thinking and the newly adopted WIDA standards.

Course Content will include, but not limited to an overview of the 3 main branches of science, an in-depth study of various units of measurements and the use of the Scientific Method.

Topics include:

*Plants: Parts of a Plant, Plants in Different Places, Flowers, Cycle Diagrams, Photosynthesis, Making New Plants, Plant Life Cycle and Unit Experiment

*Animals: What is an Animal? What Animals Need? Different Birds, Different Beaks, Animal Adaptations, Pie Charts, Invertebrates and Vertebrates, Fishes, Amphibian, Reptiles, Birds Mammals, Unit Experiment

*Rocks and Minerals: What are Rocks and Minerals? Sectional Diagrams, Igneous Rock, Sedimentary Rock, Metamorphic Rock, The Rock Cycle, Cause and Effect (reading strategy), Photo Sequences, The Earth’s Changing Surface, Weathering, Erosion, Earthquakes, Volcanoes, Unit Experiment

*Planets and Stars: Reading Strategies-(making an outline), The Solar System, The Inner Planets, Asteroids and Comets, Deep Space, Beyond the Solar System, Constellations, Star Facts, Unit Experiment

* Matter: What is Matter? Using Micrographs, Properties of Matter, Mass, Volume, Density, Reading Strategy (using an idea map), States of Matter, Solids, Liquid, Gases, Changing States of Matter, Physical and Chemical Changes, Unit Experiment

* Sound and Light: Sound Waves, Echoes, Pitch and Frequency, Volume, Sound and Matter, Using Wave Diagrams, Light, Reflection, Transparency, Colors of Objects, Refraction, Prisms, Unit Experiment

Assessment Tools:

Teacher Observations, Science Binder checks (see below), Objective Tests and Quizzes, Open-Ended Questions/Critical Thinking Activities, Class Participation, Homework, Projects and Presentations

Grading Policy:

Tests 30% Quizzes 20% Participation in Class 25% Homework 25%

Science Binders: All students need to obtain and use a 1.5 inch wide, 3-ring binder with wide-ruled filler paper and 7 subject dividers.

Other Required Materials:

A pen, pencil, ruler, highlighter, textbook and a bilingual dictionary