DOBBS FERRY MIDDLE SCHOOL
Dobbs Ferry, New York 10522

COURSE OUTLINE

SUBJECT: SCIENCE **GRADE:** 6
Curriculum reflects NGSS and MYP Learning Standards

Anticipated student outcomes:
By June of this year, students in this class should be able to…

• Make qualitative and quantitative observations. Make inferences based on those observations.

• Learn about the three states of matter.

• Understand phase changes along with reading a phase change diagram

• Describe physical versus chemical changes.

• Integrate the steps of the scientific method in various classroom investigations.

• Measure the length, mass and volume of regular and irregular shaped objects using the appropriate lab instruments and convert within the metric system.

• Investigate the structure of an atom, calculate atomic mass and atomic number.

• Draw an atom using the Bohr model.

• Recognize and access information from the Periodic Table of Elements.

• Understand the difference between an element, compound and mixture.

• Recognize and read chemical formulas for atomic and molecular make up.

• Understand Newton's Laws.

• Observe, describe, and compare effects of forces on the motion of objects.

• Determine the speed and acceleration of a moving object.

• Understand the relationship between kinetic and potential energy.

• Know the different forms of energy and identify energy conversions.

• Explain the differences between Renewable and Non Renewable resources.

Materials required or used:

To Be Determined

Criteria for grading:

Students will be graded the averaging system. Students' grade will reflect their class participation, quizzes, homework, labs, projects and tests.

Opportunities for Enrichment: Approved sites for Article Reviews

www.timeforkids.com

www.sciencenewsforkids.org

www.nytimes.com

Outline developed by: The Science Department *Date: Spring 2019*