**HANDSWORTH SECONDARY SCHOOL**



**MATHEMATICS 8: COURSE OUTLINE**

**Course Description:**

Mathematics 8’s curriculum bridges the gap between students’ mathematics knowledge and their ability to apply it in a broad range of situations that they will encounter in everyday life. This connection is facilitated through fewer learning standards, a renewed focus on flexible teaching and learning, and an emphasis on building a strong foundation of mathematical understanding and skills.

**Course Content:**

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| * **Number** represents, describes, and compares the quantities of ratios, rates, and percents.
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| * Computational **fluency** and flexibility extend to operations with fractions.
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| * **Discrete linear relationships** can be represented in many connected ways and used to identify and make generalizations.
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| * The relationship between surface area and volume of **3D objects** can be used to describe, measure, and compare spatial relationships.
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| * Analyzing **data** by determining averages is one way to make sense of large data sets and enables us to compare and interpret.
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**Assessment:**

Assessment is the systematic gathering of information about what students know, are able to do, and are working toward. Assessment strategies may include:

* Homework assignments
* Oral and group presentations
* Attitude and participation
* Self and peer evaluation
* Written assignments and projects
* Quizzes
* Tests

**ASSESSMENT AND EVALUATION:**

Term Marks (including Midyear exam) 80%

Final Assessment 20%

**RESOURCE MATERIALS:** *MATHPOWER 8,* (McGraw-Hill, 1996)

**TEXT REFERENCE**

1. Integers Package

2. Fractions Ch. 2.2, 2.3, 2.5, 2.6

3. Ratio and Rate Ch. 1.8, Ch. 3.2, 3.4 – 3.7

4. Percent and Finances Ch. 1.9, 1.10, Ch. 4.2 – 4.6, 4.8– 4.11

5. MidYear Exam

6. Patterns and Relations Ch. 5.1 - 5.6

7. Solving Equations Ch. 6.1 - 6.10

8. Squares/Square Roots, Pythagoras 1.11, 7.1, 7.2

9. Measurement/Views of Objects Ch. 8.1 – 8.5

10. Statistics and Probability Ch.10.2 - 10.6, 10.10 - 10.12