## Intermediate Math—Level Two

### Class Site(s)

<table>
<thead>
<tr>
<th>Student Placement Level(s)</th>
<th>Program Area</th>
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<td>ELL</td>
<td>GED</td>
<td>ABE</td>
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### Class Led By

- Paid Teacher

### Delivery Style

- Class

### Class Goals

To improve numeracy skills for low-intermediate learners. Learners will be able to:
- think logically about number relationships.
- compute and solve problems using rational numbers.
- develop a conceptual understanding of numeracy.
- recognize and apply mathematical vocabulary.
- use problem solving strategies to solve real-world problems.
- practice and apply mathematical concepts in real-world contexts, including workplace and community.
- use inductive and deductive reasoning to solve problems.
- develop procedural fluency.
- use mathematical tools: including calculator, number line, ruler, and problem solving strategies.

### Class Content

- Number Sense: number patterns, place value, order/number line, number properties
- Computation: basic facts and whole number operations, order of operations
- Decimals: money, place value, order, operations
- Fractions: fractional part, equivalency, order, operations
- Percents: operations
- Measurement: ruler, appropriate unit, converting units, time, temperature, length, distance, perimeter, area, capacity
- Geometry: symmetry, congruence, similarity, plane and solid figures, parallel and perpendicular lines
- Computation in Context: whole numbers, decimals, fractions, percents
- Problem solving and Reasoning: 5 step process, problem solving strategies, missing/extra information
- Estimation: rounding, prediction, reasonableness of answer
- Data Analysis: bar, line and circle graphs; tables, charts, diagrams, conclusions
- Pre-algebra: number patterns, missing variable equations
### Class Activities

Review of learning goals/objectives, accessing/activating prior knowledge, presentation of new information by leading students through the levels of math knowledge, application of new knowledge in concrete and real-world contexts, and generalization of what has been taught. May include direct instruction and modeling, cooperative learning/group work, pair and share, guided practice, independent work, class discussions, development/practice of learning strategies, and demonstration of learning objectives including formal and informal assessments.

### Class Text(s), Educational Technology, & Other Instructional Materials

- **Smart Solutions**: Books 1, 2, 3 (New Readers Press)
- **EMPower Series**: (McGraw Hill)
- **Building Strategies for GED Success**: (Steck-Vaughn)
- Websites: BBC Skillwise, AARP, GFC, Keytrain
- CommonCoreSheets.com
- **Math Skills for the Workforce**: (Steck-Vaughn)
- **Number Power Series**: (McGraw Hill)
- **Critical Thinking with Math**: (Contemporary)
- **Math Skills that Work**, books 1 & 2 (Contemporary)
- **TABE Applied Math** level M (Steck-Vaughn)
- Homework assigned on Skills Tutor
- Teacher Created Materials