Tools for the ESOL Classroom

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**Math Graphic Organizer Templates**



**Institute for the Professional Development of Adult Educators**

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Tools for the ESOL Classroom

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Templates for the Classroom

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## Base 10 Blocks Template

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## **Base 10 Blocks** - Cut along the solid lines!



## Fraction Tiles

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| 1 |

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| --- | --- |
| 12 | 12 |

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| --- | --- | --- |
| 13 | 13 | 13 |

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| 14 | 14 | 14 | 14 |

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| 15 | 15 | 15 | 15 | 15 |

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| 16 | 16 | 16 | 16 | 16 | 16 |

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| 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |

|  |  |  |  |  |  |  |  |  |  |
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| 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |

## Fraction Blocks

## Number Line



## Pattern Block Template

## Geoboard Template



## Algebra Tile Template

 **X**



## Algebra Tile Template

## Dice

## Graph Paper

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## Centimeter Grid Paper

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## Graphic Organizer for Mathematical Problem Solving

|  |
| --- |
| Main Idea (in your own words) |
| Question | Draw a Picture/Graph/Table |
| Pertinent Facts | Irrelevant Information |
| Relationship Sentence (no numbers) |
| Equation (number sentence) |
| Estimation (without computing) |
| Computation |
| Answer Sentence |

# Problem Solving Graphic Organizer – K-N-W-S

|  |  |  |  |
| --- | --- | --- | --- |
| K | N | W | S |
| What facts do I KNOW from the information in the problem? | What information do I NOT need? | What does the problem WANT me to find? | What STRATEGYor operations will I use to solve the problem? |

|  |  |  |  |
| --- | --- | --- | --- |
| **K** | **N** | **W** | **S** |
|  |  |  |  |

Adapted from *Teaching Reading in Mathematics* by Mary Lee Barton and Clare Heidema

## Verbal and Visual Word Association (Barton & Heidema, 2002)

|  |  |
| --- | --- |
| Vocabulary Term(s) | Visual Representation |
| Definitions(s) | Personal Association or a Characteristic |

## Vocabulary – Frayer Model

