**ML #1: Solids and Nets (3Dimensional Unit – Math 7)**

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| **PART 1: SOLID INFORMATION** | | |
| **Vocabulary** | **Definition** | **Illustration** |
| solid | Another name for a three-dimensional (space) figure |  |
| Polyhedron | Three-dimensional figure whose surfaces, or faces, are all polygons | m_pav3_dia_03_iii |
| polygon | A closed figure formed by line segments |  |
| faces | The plane figures (sides) that make up a solid | face |
| edges | Where faces intersect | edge |
| vertex (vertices) | Where three or more edges intersect | vertex |
| net | A pattern you can fold into a solid figure |  |

Prisms vs. Pyramids

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|  | Prisms | Pyramids |
| Number of bases |  |  |
| Shape of lateral faces |  |  |
| Named by: |  | |

**Examples of solids:**

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| **Name** | **Description** | **Illustration** | |
| Rectangular Prism | * # of base(s) * Shape of base is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | * faces ­­­\_\_\_\_ * edges \_\_\_\_ * vertices \_\_\_\_ | base  base | |
| Cube | * all faces congruent * # of base(s) * Shape of base is \_\_\_\_\_\_\_\_\_ * Shape of lateral faces \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | * faces ­­­\_\_\_\_ * edges \_\_\_\_ * vertices \_\_\_\_ |  | |
| Triangular Prism | * # of base(s) * Shape of base is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * Shape of lateral faces is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | * faces ­­­\_\_\_\_ * edges \_\_\_\_ * vertices \_\_\_\_ | m_pav3_dia_03_iii | |
| Cylinder | * # of base(s) * Shape of base is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * Shape of lateral faces is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | * faces ­­­\_\_\_\_ * edges \_\_\_\_ * vertices \_\_\_\_ |  | |
| Triangular Pyramid | * # of base(s) * Shape of base is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * Shape of lateral faces is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | * faces ­­­\_\_\_\_ * edges \_\_\_\_ * vertices \_\_\_\_ | 03 | |
| Cone | * # of base(s) * Shape of base is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | * faces ­­­\_\_\_\_ * edges \_\_\_\_ * vertices \_\_\_\_ |  | |
| Sphere | * perfectly round * # of base(s) * Shape of base is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | * faces ­­­\_\_\_\_ * edges \_\_\_\_ * vertices \_\_\_\_ |  | |

**PART 2: NETS OF SOLIDS**

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| **CUBE** | **Sketch a Picture** | **How many faces does your figure have?** | **What are the shapes of the faces?** |
| **Draw an example of a net.** | **Draw another example of a net.** | **Draw a 3rd example of a net.** |

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| **RECTANGULAR PRISM** | **Sketch a Picture** | **How many faces does your figure have?** | **What are the shapes of the faces?** |
| **Draw an example of a net.** | **Draw another example of a net.** | **Draw a 3rd example of a net.** |

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| **TRIANGULAR PRISM** | **Sketch a Picture** | **How many faces does your figure have?** | **What are the shapes of the faces?** |
| **Draw an example of a net.** | **Draw another example of a net.** | **Draw a 3rd example of a net.** |

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| **SQUARE PYRAMID** | **Sketch a Picture** | **How many faces does your figure have?** | **What are the shapes of the faces?** |
| **Draw an example of a net.** | **Draw another example of a net.** | **Draw a 3rd example of a net.** |

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| **CONE** | **Sketch a Picture** | **How many faces does your figure have?**  **What are the shapes of the faces?** | **Draw an example of a net.** |

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| **CYLINDER** | **Sketch a Picture** | **How many faces does your figure have?**  **What are the shapes of the faces?** | **Draw an example of a net.** |