










Technology-Connected Lesson Plan

Title:	Math Prefixes
Grade Levels:	5-8
Curriculum Areas:	Language Art/Math
Lesson Objectives;	<p>TSW</p> <ul style="list-style-type: none"> Use a dictionary to gather appropriate information for writing simple definitions. Learn to recognize prefixes that relate to numbers, such as mono-, bi- and tri-. Use their creative abilities to extrapolate new words to describe numerical phenomena and definitions of unfamiliar words without the use of a dictionary. Name or define the most common polygons and polyhedra found in geometry.
Content Standards:	<p>Standard One Students read, comprehend, and respond to a range of materials, using a variety of strategies for different purposes.</p> <ul style="list-style-type: none"> ELA-1-M4 interpreting texts with supportive explanations to generate connections to real-life situations and other texts (e.g., business, technical, scientific); ELA-1-M1 using knowledge of word meaning and developing basic and technical vocabulary using various strategies (e.g., context clues, affixes, etymology, dictionary); <p>Number and Number Relations In problem-solving investigations, students demonstrate an understanding of the real number system and communicate the relationships within that system using a variety of techniques and tools.</p> <ul style="list-style-type: none"> N-5-M applying an understanding of rational numbers and arithmetic operations to real-life situations; <p>Geometry In problem-solving investigations, students demonstrate an understanding of geometric concepts and applications involving one-, two-, and three-dimensional geometry, and justify their findings.</p> <ul style="list-style-type: none"> G-2-M identifying, describing, comparing, constructing, and classifying geometric figures and concepts;

Technology Guidelines:	<ul style="list-style-type: none"> Identify and define computer and networking terms (e.g. modem, file server, client station, LAN, Internet/Intranet, data storage device). (6) Demonstrate the operations of a computer (e.g., touch-keyboarding skills, save, organize and back-up files) and other peripheral devices (scanner, digital and video cameras, VCR, laser disc player) at an intermediate level. (6)
Technology Connection:	 Paint  PowerPoint  Dictionary.com http://dictionary.reference.com/
Assessment:	 Student Products
Procedures:	<ol style="list-style-type: none"> The teacher asks, "What is the connection between an octagon and an octopus?" to introduce the lesson. The teacher continues by quizzing the students on their knowledge of polygons, such as quadrilaterals, pentagons and octagons. The teacher asks if sometimes students have a hard time remembering how many sides the polygons have. The teacher continues: "Is there an easy way of remembering these names?" "What about the beginning of the words?" "What do we sometimes call the beginning of a word?" The teacher gives the students Math Prefixes Dictionary. The students use Dictionary.com to look for the definitions. Then they answer the second part of the worksheet. Students should now realize the answers are written in the words, as prefixes. The teacher begins a chart of the prefixes matching the numbers that the students have discovered. The students can now answer the questions easily on the transparency sheet. Using Paint, the students draw strange looking creatures from outer space with unusual number of legs, eyes, heads, or ears. Have the students come up with a name for the creatures based on number prefixes. Example: A Triped Quadarmed Unieye. The students can then organize their saved images into a PowerPoint.
Materials:	 Transparency, Dictionary Worksheet
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School:	 OWD/KHS