

# Mathematics Alignment Guide

## Mason-Lake Tech Prep

### Course: Graphic Communications

\*\*\* Note: If a standard is covered partially, then the part that is covered is underlined.

| High School Content Expectations                                                                                                                                                                                                                                                                                     |                   |          |                                                                                                                                               |                   |         |                                                                                                                                             |
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| Standard                                                                                                                                                                                                                                                                                                             | Level of Coverage |          | Activities Linked to this Standard                                                                                                            | Assessment Method |         | Assessment Correlation                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                      | Partial           | Complete |                                                                                                                                               | Performance Based | Written | Approximate Time Spent on the Standard                                                                                                      |
| L2.3.1 <u>Convert units of measurement</u> within and <u>between systems</u> ; explain how arithmetic operations on measurements affect units, and carry units through calculations correctly.                                                                                                                       | x                 |          | Students convert various units of measure including, but not limited to:<br>1) converting points to inches,<br>2) converting picas to inches. | x                 | x       | Students demonstrate proficiency by:<br>1) in-class assignments,<br>2) quizzes that incorporate these assessments,<br>3) in-class projects. |
| L2.4.1 <u>Determine what degree of accuracy is reasonable for measurements in a given situation</u> ; express accuracy through use of significant digits, error tolerance, or percent of error; describe how errors in measurements are magnified by computation; recognize accumulated error in applied situations. | x                 |          | Students determine the degree of accuracy that is necessary when reading a ruler and using the units in applied situations.                   | x                 | x       | Students demonstrate proficiency by:<br>1) in-class assignments,<br>2) quizzes that incorporate these assessments,<br>3) in-class projects. |
|                                                                                                                                                                                                                                                                                                                      |                   |          |                                                                                                                                               |                   |         | Incorporated into numerous activities throughout the school year                                                                            |
|                                                                                                                                                                                                                                                                                                                      |                   |          |                                                                                                                                               |                   |         | Incorporated into numerous activities throughout the school year                                                                            |

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| L2.4.2 <u>Describe and explain round-off error, rounding, and truncating.</u>                                                                                                                        | x |  | Students do story problems from their <i>Mathematics in Graphic Communications</i> book.                                                                                  | x | x | Students demonstrate proficiency by:<br>1) story problems from text,<br>2) in-class activities,<br>3) quiz,<br>4) final exam. | Incorporated into numerous activities throughout the school year |
| G2.2.1 <u>Identify or sketch a possible 3-dimensional figure, given 2-dimensional views.</u><br>Create a 2-dimensional representation of a 3-dimensional figure.                                     | x |  | Students draw thumbnail sketches prior to beginning assignments on the computer. Some examples include airbrushing on a 3-D figure or sketching a press with the process. | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.                                 | Incorporated into numerous activities throughout the school year |
| L1.2.3 <u>Use vectors to represent quantities that have magnitude and direction; interpret direction and magnitude of a vector numerically, and calculate the sum and difference of two vectors.</u> | x |  | Students use vectors with Clipart Software to draw images.                                                                                                                | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.                                 | Approximately 8 – 10 days                                        |
| L2.4.3 <u>Know the meaning of and interpret statistical significance, margin of error, and confidence level.</u>                                                                                     | x |  | Students identify the appropriate margin of error for placing images on paper to reduce waste. (Imposition)                                                               | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.                                 | 2 weeks                                                          |
| S1.2.2 <u>Estimate the position of the mean, median, and mode in both symmetrical and skewed distributions, and from a frequency distribution or histogram.</u>                                      | x |  | Students read histograms and their relationship to photographs for lightness and darkness.                                                                                | x |   | Students demonstrate proficiency on in-class assignments.                                                                     | 1 week                                                           |

| ACT Standards                                                                         |   |   |                                                                                                                                                 |   |   |                                                                                                                                             |                                                                  |
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| Perform one-operation computation with whole numbers and decimals (Range 13 – 15)     |   | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book.                                                        | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.                                               | Incorporated into numerous activities throughout the school year |
| Perform common conversions (e.g., inches to feet or hours to minutes) (Range 13 – 15) | x |   | Students convert various units of measure including, but not limited to:<br>1) converting points to inches,<br>2) converting picas to inches.   | x | x | Students demonstrate proficiency by:<br>1) in-class assignments,<br>2) quizzes that incorporate these assessments,<br>3) in-class projects. | Incorporated into numerous activities throughout the school year |
| Solve problems in one or two steps using whole numbers (Range 13 – 15)                |   | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book.                                                        | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.                                               | Incorporated into numerous activities throughout the school year |
| Perform a single computation using information from a table or chart (Range 13 – 15)  |   | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book. Students read charts for conversions and measurements. | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.                                               | Incorporated into numerous activities throughout the school year |

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| Recognize equivalent fractions and fractions in lowest terms (Range 13 – 15)                                                          |   | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book. Students recognize and use equivalent fractions when reading a ruler and applying the measurements to projects. | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.   | Incorporated into numerous activities throughout the school year |
| Identify the location of a point with a positive coordinate on the number line (Range 13 – 15)                                        |   | x | Students use the concept of a number line when working with rulers and paper cutter.                                                                                                                     |   | x | Students apply this concept on a ruler quiz.                                                    | Incorporated into numerous activities throughout the school year |
| Estimate or calculate the length of a line segment based on other lengths given on a geometric figure (Range 13 – 15)                 |   | x | Students calculate the number of images per sheet based on the size of the image and the size of the paper.                                                                                              |   | x | Students demonstrate proficiency by on various in-class activities and story problems in class. | Incorporated into numerous activities throughout the school year |
| Solve routine one-step arithmetic problems (using whole numbers, fractions, and decimals) such as single-step percent (Range 16 – 19) | x |   | Students do story problems from their <i>Mathematics in Graphic Communications</i> book. Students solve problems that involve measurements using decimals, whole numbers and fractions.                  |   | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.   | Incorporated into numerous activities throughout the school year |

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| Solve some routine two-step arithmetic problems (Range 16 – 19)    |  | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book.<br>In a lab setting, students multiply to get the total number of items and then use division to determine the number of sheets needed to print. | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |
| Read tables and graphs (Range 16 – 19)                             |  | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book.<br>Students read charts for conversions and measurements.                                                                                        | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |
| Perform computations on data from tables and graphs (Range 16 -19) |  | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book.<br>Students read charts and tables and use the information to do conversions.                                                                    | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |

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| Solve routine two-step or three-step arithmetic problems involving concepts such as rate and proportion (Range 20 – 23)              |  | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book. Students use proportions to determine how many images can be printed on larger sheets of paper based on a known number of images fit on a smaller sheet of paper.                                               | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |
| Exhibit knowledge of elementary number concepts including rounding, the ordering of decimals, pattern identification (Range 20 – 23) |  | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book. Students round decimals to whole numbers when calculating the number of sheets to print. Students know the order of decimals when placing images on a page. Students recognize how to create repeated patterns. | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |

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| Perform straightforward word-to-symbol translations (Range 20 – 23)                                                               |   | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book.                                                                               |   | x | Students demonstrate proficiency on quizzes and on the final exam.                                         | Approximately 8 – 10 weeks                                       |
| <u>Exhibit knowledge of basic angle properties and special sums of angle measures (e.g., 90°, 180°, and 360°)</u> (Range 20 – 23) | x |   | Students use a T-square to determine perpendicularity of lines and angle sums of 90°.                                                                                  |   | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz.                                | Incorporated into numerous activities throughout the school year |
| Compute the area and perimeter of triangles and rectangles in simple problems (Range 20 – 23)                                     |   | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book.                                                                               |   | x | Students demonstrate proficiency on worksheets from the <i>Mathematics in Graphic Communications</i> book. | Approximately 1 week                                             |
| Manipulate data from tables and graphs (Range 24 – 27)                                                                            |   | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book.<br>Students read charts and tables and use the information to do conversions. | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.              | Incorporated into numerous activities throughout the school year |

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| Order fractions<br>(Range 24 – 27)                                                                                                                                                                                                                                                                 |   | x | Students know the order of fractions when placing images on a page.                                                                                                                                   | x | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.        | Incorporated into numerous activities throughout the school year |
| <u>Write</u><br><u>expressions</u> , or<br>inequalities <u>with</u><br><u>a single variable</u><br><u>for common</u><br><u>pre-algebra</u><br>settings (e.g., rate<br>and distance<br>problems and<br>problems that can<br>be solved by<br><u>using</u><br><u>proportions</u> )<br>(Range 24 – 27) | x |   | Students do story problems from their <i>Mathematics in Graphic Communications</i> book.<br>Students determine the number of newspapers printed per minutes on their Ludington Daily News field trip. |   |   | x | Students demonstrate proficiency on their in-class textbook assignments and during their field trip. | Approximately 1 week                                             |
| Find the midpoint of a line segment<br>(Range 24 – 27)                                                                                                                                                                                                                                             |   | x | Students determine the $\frac{1}{2}$ way point (midpoint) to center images and to cut paper into equal sections.                                                                                      |   | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.        | Incorporated into numerous activities throughout the school year |
| Interpret and use information from figures, tables, and graphs<br>(Range 28 – 32)                                                                                                                                                                                                                  |   | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book.<br>Students read charts and tables and use the information to do conversions.                                |   | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.        | Incorporated into numerous activities throughout the school year |



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| <p><u>Solve complex arithmetic problems involving percent of increase or decrease</u> and problems requiring integration of several concepts from pre-algebra and/or pre-geometry (e.g., <u>comparing percentages or averages</u>, using several ratios, and finding ratios in geometry settings)<br/>(Range 33 – 36)</p> | x |   | <p>Students do story problems from their <i>Mathematics in Graphic Communications</i> book. Students use percent increase or percent decrease to fit scale images to fit appropriately on a page (proportion scale). Students compare average salaries of different careers in graphic communications.</p> | x |   | Students demonstrate proficiency on in-class projects.                                        | Incorporated into numerous activities throughout the school year |
| <p>Draw conclusions based on number concepts<br/>(Range 33 – 36)</p>                                                                                                                                                                                                                                                      |   | x | <p>Students do story problems from their <i>Mathematics in Graphic Communications</i> book. Students draw conclusions on the number of sheets they need for printing based on calculations and rounding.</p>                                                                                               | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |

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| Draw conclusions based on a set of conditions (Range 33 – 36)                                                                                                     |  | x | Students look at conditions to determine the proper timeline and process for completing projects.                                                                       | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |
| Solve multi-step geometry problems that involve integrating concepts, planning, visualization, and/or making connections with other content areas (Range 33 – 36) |  | x | Students visualize the final product, draw a 2-D view, measure appropriately, scale designs, and set the appropriate proportions to print the correct number of images. | x |   | Students demonstrate proficiency on long-range in-class projects.                             | Incorporated into numerous activities throughout the school year |
| Use scale factors to determine the magnitude of a size change (Range 33 – 36)                                                                                     |  | x | Students use scale factors to resize images proportionally.                                                                                                             | x |   | Students demonstrate proficiency on long-range in-class projects.                             | Incorporated into numerous activities throughout the school year |

## WorkKeys Standards

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| Solve problems that require a single type of mathematics operation (addition, subtraction, multiplication, and division) using whole numbers (Level 3) |  | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book and do single-step calculations in the lab setting; particularly based on measurement readings. | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |
| Change numbers from one form to another using whole numbers, fractions, decimals, or percentages (Level 3)                                             |  | x | Students convert numbers between fractions, decimals, and whole numbers when measuring.                                                                                                 | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |

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| Solve problems that require one or two operations (Level 4)                                                       |   | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book and do single-step calculations in the lab setting; particularly based on measurement readings. Students may do multi-step calculations on measuring and calculating proportional sizes for cutting out images. | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |
| <u>Calculate</u> averages, simple ratios, simple proportions, or rates using whole numbers and decimals (Level 4) | x |   | Students calculate averages of salaries for various careers in graphic communications. Students use simple ratios and proportions for resizing objects and for determining the proper number of pages to print.                                                                                         | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |

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| Add commonly known fractions, decimals, or percentages (e.g., $\frac{1}{2}$ , .75, 25%) (Level 4) |  | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book and add single-step calculations in the lab setting; particularly based on measurement readings and finding midpoints. | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |
| Add up to three fractions that share a common denominator (Level 4)                               |  | x | Students do story problems from their <i>Mathematics in Graphic Communications</i> book and add single-step calculations in the lab setting; particularly based on measurement readings.                       | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam. | Incorporated into numerous activities throughout the school year |
| Multiply a mixed number by a whole number or decimal (Level 4)                                    |  | x | Students multiply mixed numbers by whole numbers when determining how many images (mixed number) fit on a page (whole number)                                                                                  | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz.                   | Incorporated into numerous activities throughout the school year |

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| Put the information in the right order before performing calculations (Level 4)                                        |   | x | After performing measurements, students label images appropriately and make sure the information is represented accurately before performing calculations for resizing or fitting to paper.                         | x |   | Students demonstrate proficiency on in-class projects.                                                                                      | Incorporated into numerous activities throughout the school year |
| Decide what information, calculations, or unit conversions to use to solve the problem (Level 5)                       |   | x | Students visualize the final product, draw a 2-D view, measure appropriately, perform needed conversions on measurements, scale designs, and set the appropriate proportions to print the correct number of images. | x |   | Students demonstrate proficiency on long-range in-class projects.                                                                           | Incorporated into numerous activities throughout the school year |
| Look up a formula and perform <u>single-step conversions</u> within or <u>between systems of measurement</u> (Level 5) | x |   | Students convert various units of measure including, but not limited to:<br>1) Converting points to inches<br>2) Converting picas to inches                                                                         | x | x | Students demonstrate proficiency by:<br>1) in-class assignments,<br>2) quizzes that incorporate these assessments,<br>3) in-class projects. | Incorporated into numerous activities throughout the school year |

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| <u>Use fractions, negative numbers, ratios, percentages, or mixed numbers</u><br>(Level 6) | x |   | Students do story problems from their <i>Mathematics in Graphic Communications</i> book. Students use fractions in measurements and calculations for determining resizing of images. Students use ratios when determining how many pages to print or how many images to fit on a page. Students use mixed numbers in single-step calculations based on measurement readings and finding midpoints. | x | x | Students demonstrate proficiency by:<br>1) in-class activities,<br>2) quiz,<br>3) final exam.                                                                                                 | Incorporated into numerous activities throughout the school year |
| Find mistakes in questions that belong at Levels 3, 4, and 5<br>(Level 6)                  |   | x | Students make corrections on their work to perform to the expectation.                                                                                                                                                                                                                                                                                                                             |   | x | The teacher uses mastery learning in some situations to ensure that the concepts are understood. (Mastery learning is not necessarily used if students show common mistakes or carelessness.) | On an as-needed basis                                            |

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| Convert between systems of measurement that involve fractions, mixed numbers, decimals, and/or percentages (Level 7) |  | x | Students convert various units of measure including, but not limited to:<br>1) converting points to inches,<br>2) converting picas to inches. | x | x | Students demonstrate proficiency by:<br>1) in-class assignments,<br>2) quizzes that incorporate these assessments,<br>3) in-class projects. | Incorporated into numerous activities throughout the school year |
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