

PATTERNS PORTFOLIO

COVER LETTER FOR PATTERNS

1. Cover Letter Introduction (20 pts)

a. Identify and describe the unit's central ideas

- 0 – No central ideas or inappropriate central ideas identified or described
- 1 – Limited, vague, or only somewhat appropriate central ideas identified with no description provided
- 2 – Limited, vague central ideas identified with minimal description
- 3- Satisfactory central ideas identified with adequate description and minimal reference to specific unit example
- 4 – Excellent statement of central ideas with extensive reference to specific unit examples

b. Describe mathematical concepts addressed in the unit

- 0 – No mathematical concepts identified or described
- 1 – Limited, vague description of 2-3 mathematical concepts or 1 satisfactory description of a concept
- 2 – Limited, vague description of 4-5 mathematical concepts or only 2 satisfactory descriptions of concepts
- 3 – Satisfactory description of 3-4 mathematical concepts with minimal reference to specific unit examples
- 4 – Excellent description of 5-6 mathematical concepts with extensive reference to specific unit examples

c. Explain what mathematics is

- 0 – No explanation of what mathematics is provided
- 1 – A poor explanation (limited, incomplete, or vague) with no supporting examples provided
- 2 – A limited explanation with few specific examples to support the description
- 3- A satisfactory explanation with several specific examples to support the description
- 4- An excellent statement of what mathematics is with extensive examples comparing and contrasting past and present experiences of math classes, classrooms, teachers, textbooks, course content, etc.

d. Explain how you are now learning mathematics in IMP

- 0 – No explanation of how mathematics is learned
- 1 – A poor explanation (limited, incomplete, or vague)
- 2 – A limited explanation that lacks any specific example to support the ideas being expressed about your learning mathematics in the IMP Program
- 3- A satisfactory explanation that uses several specific example to support the ideas being expressed about your learning mathematics in the IMP Program

4- A detailed explanation that uses extensive specific to support several well stated ideas about how you are learning mathematics in the IMP Program

e. Identify and describe other general themes addressed in the unit

0 – No other general themes identified or described

1 – One or two general themes identified without any description

2 – One or two general themes identified with limited description

3 – One or two general themes identified with adequate description but limited specific examples from the unit provided for support

4 – One or two themes identified with detailed description and extensive reference to specific examples in the unit

2. Explanation for Selected Papers (24 pts)

a. Describe how your selected paper(s) on “In-Out Tables” shows you know what In-Out Tables are

0 – No paper(s) selected

1- Limited, incomplete, or vague description of how selected paper(s) show you know what In-Out Tables are with no specific references to paper(s) selected

2- A fair description of how selected papers show you know what In-Out Tables are, but description lacks depth and there is little reference to selected paper(s)

3- A good description of how selected paper(s) show you know what In-Out Tables are, with some specific references made to selected paper(s)

4- A complete and thorough description of how selected papers show you know what In-Out Tables are, and there are extensive references to material in the selected papers

b. Describe how your selected paper(s) on “In-Out Tables” show you understand how to use In-Out Tables

0 – No paper(s) selected

1 - Limited, incomplete, or vague description of how selected paper(s) show you understand how to use In-Out Tables with no specific references to paper(s) selected

2 - A fair description of how selected papers show you understand how to use In-Out Tables, but description lacks depth and there is little reference to selected paper(s)

3 - A good description of how selected paper(s) show understand how to use In-Out Tables, with some specific references made to selected paper(s)

4 - A complete and thorough description of how selected papers show you understand how to use In-Out Tables, and there are extensive references to material in the selected papers

c. Describe how your selected paper(s) on “Angles” strengthened your understanding of angles

0 – No paper(s) selected

- 1 - Limited, incomplete, or vague description of how selected paper(s) strengthened your understanding of angles with no specific references to paper(s) selected
- 2- A fair description of how selected papers strengthened your understanding of angles, but description lacks depth and there is little reference to selected paper(s)
- 3- A good description of how selected paper(s) strengthened your understanding of angles, with some specific references made to selected paper(s)
- 4 - A complete and thorough description of how selected papers strengthened your understanding of angles, and there are extensive references to material in the selected papers

d. Describe how your selected paper(s) on “Angles” gave you “insights” into angles and polygons

- 0 – No paper(s) selected
- 1 - Limited, incomplete, or vague description of how selected paper(s) gave you insights into angles and polygons with no specific references to paper(s) selected
- 2- A fair description of how selected papers gave you insights into angles and polygons, but description lacks depth and there is little reference to selected paper(s)
- 3- A good description of how selected paper(s) gave you insights into angles and polygons, with some specific references made to selected paper(s)
- 4 - A complete and thorough description of how selected papers gave you insights into angles and polygons, and there are extensive references to material in the selected papers

e. Describe why you selected the POW you included in your portfolio

- 0 – No POW selected
- 1 – A limited, incomplete, or vague description of why you selected the POW you included in the portfolio with no specific references to any information in the POW
- 2 – A fair description of why you selected the POW, but lacks depth and there is little reference to specific information in the POW
- 3– A good description of why you selected the POW with some reference and explanation of specific information in the POW
- 4– A complete and thorough description of why you selected the POW, with extensive reference to information that is explained in detail

f. Describe how the additional work you included demonstrates your best efforts

- 0 – No additional paper(s) selected
- 1 – A limited, incomplete, or vague description of how the additional work demonstrates your best effort
- 2 – A fair description of how your additional work demonstrates your best efforts, but lacks depth and there is little reference to specific information in the additional work

- 3 – A good description of how additional work demonstrates your best effort with some references to examples in the work that support your definition of “best work”
- 4 – A complete and thorough description of how additional work demonstrates your best effort with extensive references to examples that support your definition of “best work”

SELECTED PAPERS FROM PATTERNS (24 pts)

1. Homework #1: Past Experiences

- 0 – is not in portfolio
- 1 – in portfolio, but is incomplete or does not show evidence of a considerable amount of time and effort went into the finished product
- 2 – in portfolio, is complete with minimal evidence of time and effort
- 3- in portfolio, is complete with satisfactory evidence of time and effort
- 4 – in portfolio, is complete with extensive evidence of time and effort

2. Homework#14: You’re the Chef

- 0 – is not in portfolio
- 1 – in portfolio, but is incomplete or does not show evidence of a considerable amount of time and effort went into the finished product
- 2 – in portfolio, is complete with minimal evidence of time and effort
- 3- in portfolio, is complete with satisfactory evidence of time and effort
- 4 – in portfolio, is complete with extensive evidence of time and effort

3. Selected paper(s) on In-Out Tables

- 0 – is not in portfolio
- 1 – paper(s) in portfolio, but are incomplete or do not show evidence of a considerable amount of time and effort and do not support the fact that you know what In-Out tables are or how to use them
- 2 –paper(s) in portfolio, are complete with minimal evidence of time and effort with limited support that you know what In-Out tables are or how to use them
- 3- paper(s) in portfolio, are complete with satisfactory evidence of time and effort with acceptable support that you know what In-Out Tables are or how to use them
- 4– paper(s)in portfolio, are complete with extensive evidence of time and effort with extensive support form your student-made tables and written descriptions, explanations, and analysis of your In-Out Tables

4. Selected paper(s) on Angles and/or Polygons

- 0 – is not in portfolio
- 1 –paper(s) in portfolio, but are incomplete or do not show evidence of a considerable amount of time and effort and do not support the fact that you have an understanding of angles and polygons
- 2- paper(s) are in portfolio, are complete with minmial evidence of time and effort with limited support of your understanding of angles and polygons
- 3- paper(s) are in portfolio, are complete with satisfactory evidence of time and effort with acceptable support that you understand angles and polygons

4 - paper(s) are in portfolio, are complete with extensive evidence of time and effort with extensive support that you understand angles and polygons and would most probably be able to apply your understanding to similar problems

5. Selected POW

0 – is not in portfolio

1 – POW is in portfolio, but is incomplete or had a low overall self-assessment and does not show evidence of a considerable amount of time or effort

2 – POW is in portfolio, is complete with minimal evidence of time and effort and a low overall self-assessment score

3- POW is in portfolio, is complete with satisfactory evidence of time and effort, however not all scoring areas rated high

4 – POW is in portfolio is complete with extensive effort of time and effort and a high overall self-assessment

6. Selected additional work

0 – is not in portfolio

1- is in portfolio, but is of poor quality and does not support the concept of “best efforts” or have any reason for its addition to the portfolio

2 – is in portfolio, but is of limited quality with no definite reason for its addition to the portfolio

3 – is in portfolio and is of satisfactory quality with possible reasons for its addition to the portfolio

4 – is in portfolio and is of excellent quality with definite reasons for its addition to the portfolio

PERSONAL GROWTH DISCUSSION FOR PATTERNS (28 pts)

1. Describe how do you feel you progressed in working with others

0 – No description

1 – A limited and/or vague description with no supporting examples

2 – A limited description with few supporting examples

3 – A satisfactory description with several supporting examples, however examples tend to rather general

4 – A detailed description with many specific supporting examples

2. Describe how do you feel you progressed in presenting to the class

0 – No description

1 – A limited and/or vague description with no supporting examples

2 – A limited description with few supporting examples

3 – A satisfactory description with several supporting examples, however examples tend to rather general

4 – A detailed description with many specific supporting examples

3. Describe how do you feel you progressed in orally describing your thought process

0 – No description

1 – A limited and/or vague description with no supporting examples

2 – A limited description with few supporting examples

- 3 – A satisfactory description with several supporting examples, however examples tend to rather general
- 4 – A detailed description with many specific supporting examples

4. Describe how do you feel you progressed in writing about your thought process

- 0 – No description
- 1 – A limited and/or vague description with no supporting examples
- 2 – A limited description with few supporting examples
- 3 – A satisfactory description with several supporting examples, however examples tend to rather general
- 4 – A detailed description with many specific supporting examples

5. Explain what you need to work on, and why

- 0 – No description
- 1 – A limited and/or vague description with no supporting examples
- 2 – A limited description with few supporting examples
- 3 – A satisfactory description with several supporting examples, however examples tend to rather general
- 4 – A detailed description with many specific supporting examples

6. Describe how will you work on the topics you feel you need to work on

- 0 – No description
- 1 – A limited and/or vague description with no supporting examples
- 2 – A limited description with few supporting examples
- 3 – A satisfactory description with several supporting examples, however examples tend to rather general
- 4 – A detailed description with many specific supporting examples

7. Describe any other thoughts about your experience with this unit you want to share

- 0 – No description
- 1 – A limited and/or vague description with no supporting examples
- 2 – A limited description with few supporting examples
- 3 – A satisfactory description with several supporting examples, however examples tend to rather general
- 4 – A detailed description with many specific supporting examples

SELF-ASSESSMENT OF PORTFOLIO (4 pts)

a. Grade and Justify your work using a self-assessment scoring rubric

- 0 – Work not graded with rubric
- 1 – Score values provide with no justification
- 2 - Score values provide with minimal rational and many/most values not acceptable based on scoring guide criteria
- 3 - Scores values provided with fair/good rationales, but some values not acceptable based on scoring guide criteria
- 4 - Score values provided with strong rationales, all values acceptable based on scoring guide criteria