

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Chapter 1 Problem Wrap-Up Rubric

BLM 1-19

Categories	Level 1	Level 2	Level 3	Level 4
<b>Knowledge and Understanding</b> <ul style="list-style-type: none"> <li>polynomials and their domains, ranges, finite differences and symmetry</li> </ul>	<ul style="list-style-type: none"> <li>demonstrates little understanding of polynomials and their domains, ranges, finite differences and symmetry</li> <li>design uses one polynomial function</li> </ul>	<ul style="list-style-type: none"> <li>demonstrates some understanding of polynomials and their domains, ranges, finite differences and symmetry</li> <li>design uses one or two polynomial functions</li> </ul>	<ul style="list-style-type: none"> <li>demonstrates considerable understanding of polynomials and their domains, ranges, finite differences and symmetry</li> <li>design uses two polynomial functions</li> </ul>	<ul style="list-style-type: none"> <li>demonstrates thorough understanding of polynomials and their domains, ranges, finite differences and symmetry</li> <li>design uses two or three polynomial functions</li> </ul>
<b>Thinking</b> <ul style="list-style-type: none"> <li>Prepares a plan to solve the problem</li> <li>Carries out the plan</li> </ul>	<ul style="list-style-type: none"> <li>needs extensive assistance to begin organizing a plan and needs some steps to follow</li> </ul>	<ul style="list-style-type: none"> <li>needs some assistance to organize and implement an effective strategy</li> </ul>	<ul style="list-style-type: none"> <li>needs minimal assistance to organize and implement an effective strategy</li> </ul>	<ul style="list-style-type: none"> <li>needs no assistance to organize and implement an effective strategy</li> </ul>
<b>Communication</b> <ul style="list-style-type: none"> <li>clear explanations and full justifications</li> <li>correct use of mathematical language</li> <li>report includes description of item, drawing of design, the polynomial equations used, features of the polynomials</li> </ul>	<ul style="list-style-type: none"> <li>does not clearly explain or justify solution</li> <li>uses limited mathematical form</li> <li>has one component of the report</li> </ul>	<ul style="list-style-type: none"> <li>explains and justifies solution somewhat</li> <li>uses minimal mathematical form</li> <li>has two components of the report</li> </ul>	<ul style="list-style-type: none"> <li>explains and justifies solution fully</li> <li>uses good mathematical form</li> <li>has three components of the report</li> </ul>	<ul style="list-style-type: none"> <li>explains, justifies and shows insight into the complexities of the solution</li> <li>uses excellent mathematical form</li> <li>has all four components of the report</li> </ul>