

## Scoring Guide for POW 2: Tying the Knots

<b>1. PROBLEM STATEMENT (6 pts)</b>	<b>MAX SCORE</b>	<b>SCORE</b>
a. Restate the story of the POW in your own words	<b>4</b>	
b. Restate the problem in your own words	<b>2</b>	
<b>2. PROCESS (16 pts)</b>		
a. Describe your initial ideas concerning the problem, explain	<b>2</b>	
b. Describe how you worked on the problem, including the experiments you tried	<b>4</b>	
c. Describe how you kept track of your experimental results	<b>2</b>	
d. Provide all diagrams and sketches	<b>2</b>	
e. Describe all materials used and their purpose	<b>2</b>	
f. Describe any problems you had, and how you solved them	<b>2</b>	
g. Describe all assistance provided and how it helped you	<b>2</b>	
<b>3. SOLUTION (8 pts)</b>		
a. State the probability for each possible outcome	<b>4</b>	
b. Describe how you determined the probability of each possible outcome	<b>4</b>	
<b>4. EVALUATION (12 pts)</b>		
a. State the difficulty level of the problem (scale of 1-10), explain	<b>2</b>	
b. Describe your personal reaction/opinion to the problem	<b>2</b>	
c. Identify the best/worst parts of the problem	<b>2</b>	
d. Describe how the problem could have been made better for you	<b>2</b>	
e. Write a one paragraph summary of "what you learned from the problem"	<b>4</b>	
<b>5. SELF-ASSESSMENT (8 pts)</b>		
a. Grade and Justify your work using a self-assessment scoring rubric	<b>4</b>	
b. Write a one paragraph summary that identifies your weakest areas in this POW and describe the problems you had or the reasons you become "stuck" in these areas	<b>4</b>	
<b>TOTAL SCORE</b>	<b>50</b>	

COMMENTS: