## Grading Group Work

Please assign points to your group members in the following areas (5=to a very great extent, 1= not at all)

<table>
<thead>
<tr>
<th></th>
<th>Person 1</th>
<th>Person 2</th>
<th>Person 3</th>
<th>Person 4</th>
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</thead>
<tbody>
<tr>
<td>Attended meetings promptly &amp; reliably</td>
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<tr>
<td>Offered helpful ideas</td>
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<tr>
<td>Followed through on individual assignments</td>
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<tr>
<td>Gave support and help to others</td>
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<tr>
<td>Overall contribution to group</td>
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## Grading Rubric – Problem Solving

### Step 1 – Define the problem (6 points – max)
- Determines and lists knowns and unknowns
- Draws figures.
- Identifies the constraints

### Step 2 – Explore (6 points – max)
- Asks questions
- Examines all aspects of the problem
  - What parts/information are present?
  - Which of these parts are routine?
  - What data/information is missing?
  - Are there alternate solution methods?
  - What unavailable data are likely to be required?
  - What equations are most appropriate?
  - Is this problem analogous to another problem?
  - What do limiting conditions say about the solution?

### Step 3 – Plan & Do it (6 points – max)
- Uses formal logic to set up the steps of the problem.
- Uses a flow-chart for more complex problems
- Writes out and solve the appropriate equations without numbers.
- Puts in values and calculates an answer.

### Step 4 – Check It & Generalize (6 points – max)
- Checks dimensions and/or units.
- Checks for math and conceptual errors.
- Compares the answer to the limits determined in the explore step.
- Compares answer to intuitive answer.
- Considers what has been learned about the content?
- Considers possible errors.

### Response to Prompting (6 points – max)