

Outline of Problem-Solving Days

| Time Allotment | Activity | Description |
|-----------------------|------------------------------------|--|
| 25 minutes | Mini-Presentations | <ul style="list-style-type: none"> • Each student will be assigned (at least) one problem to present to the class over the course of the semester. • At the start of the semester, students will know the date they are assigned to make their first presentation as well as the problem. * • Students must meet with the instructor before the presentation to ensure accurate understanding of the problem and how to explain its solution. • These student-presented problems may be seen on weekly in-class quizzes. • <i>GRADING:</i> Students will receive half-credit for presenting the problem clearly, and half-credit for the accuracy of their solution. |
| 15 minutes | Group Problem Solving | <ul style="list-style-type: none"> • Students work together on a problem distributed in class. • These group problems may be seen on tests. |
| 5+ minutes | Student Solutions to Group Problem | <ul style="list-style-type: none"> • 3 students will be randomly selected in such a way that every student is selected at least once during the semester. • Each of these 3 students must (independently) write their work to the group problem on the board, including a complete sentence stating their findings. • <i>GRADING:</i> Students will receive full credit for attempting the problem and presenting their attempt. The instructor reserves the right to not give credit to a student who did not give a sincere effort to attempt the problem. |
| 5+ minutes | Discussion of Results | <ul style="list-style-type: none"> • Instructor leads brief discussion of presented results, highlighting important factors one must take to clearly show their work. • Differences of alternate correct conclusions should be pointed out. |

*The instructor reserves the right to change the problem assignment with a minimum two-week notice.