

## Minequest Problem Solving Matrix Directions

A matrix is a form to chart how categories of data or information are related to each other. The Minequest problem solving matrix will help you chart how each of your solutions rates against your selected criteria. Each minequest may require a different number of solutions and/or criteria so you may not use all the cells in the matrix.

In the cells labeled criteria 1-5, write a short description of each of your criteria. Be sure that you have a full description of each criteria on another page. In the cells under the heading "Solution/Predictions" write a brief descriptive phrase for the solutions you have developed. Be sure your solutions are also fully described on another page.

Using a scale of 1-10, with ten being the best rating and one being the poorest rating, rate each solution according to each criteria across the row. You may use the same rating score more than once across the row. Don't give everything the same score because then you're not thinking and evaluating. It is quite possible that one solution might rate eights and nines across the criteria and another solution might not rate higher than a five on any criteria. Another solution may have both very high and very low ratings.

When all the cells are filled with numbers reflecting your ratings, total the rows across for each solution. The solution with the highest total is your best solution because it will do the most good and least harm.

Your teacher will distribute copies of the matrix for you to use or will direct you to print a copy for this Minequest. Your teacher will direct you to complete the matrix on your own or with your team.

