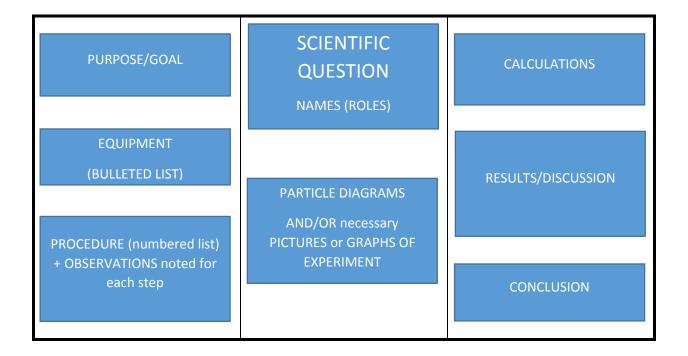
| Name | _ FINAL GRADE _ | / 100 |
|-----------------|-----------------|-------|
| Partners' Names | | |

SOLUTIONS UNIT: Group Experiment and Presentation Rubric worth a <u>test grade</u> [point values in brackets]

| Conce | epts that must be addressed: [40 pts] | | |
|---|--|--|--|
| | What is a solution? | | |
| | Identify the <u>solute</u> and <u>solvent</u> in every so | olution/5 | |
| | ☐ How do you make a solution? | | |
| | Show math for determining concentration | | |
| | • Show math for dilutions made $(M_1V_1 = N_1)$ | | |
| | Describe solutions as <u>saturated</u>, <u>unsaturated</u>, or <u>supersaturated</u> and why/5 | | |
| | Why do solutions form? | | |
| | o Identify all substances as polar or nonpol | | |
| | o Explain why solutions form or not in terr | ms of <u>polarity</u> ("like dissolves like")/5 | |
| | | ılar forces (i.e. dissociation, dissolving, hydrogen | |
| | bonding, etc.)/5 | | |
| | What affects solution formation? | | |
| o Explain relationship of solubility and temperature (heat), particle size (surface area), and/or | | | |
| | stirring based on how well or how fast so | lutions form / 5 | |
| Scien | tific Question and Names [1 pt] | Purpose/Goal [2 pts] | |
| | Make question large on poster board/.5 | ☐ State purpose/goal of experiment/1 | |
| | | | |
| | Underneath title, include names of all group | \Box Have title for this section at top/1 | |
| | members with roles in parenthesis/.5 | | |
| | | | |
| Equip | oment [2 pts] | Procedure [5 pts] | |
| | oment [2 pts] List every equipment, tool, and substance used | Procedure [5 pts] Number every step performed in detail | |
| | List every equipment, tool, and substance used | Procedure [5 pts] Number every step performed in detail /2 | |
| | List every equipment, tool, and substance used in bullet form/1 | ☐ Number every step performed in detail /2 | |
| | List every equipment, tool, and substance used | □ Number every step performed in detail □ /2 □ For each step, mention the equipment or | |
| | List every equipment, tool, and substance used in bullet form/1 | ☐ Number every step performed in detail /2 | |
| | List every equipment, tool, and substance used in bullet form/1 | □ Number every step performed in detail □ /2 □ For each step, mention the equipment or | |
| | List every equipment, tool, and substance used in bullet form/1 Have a title for this section at the top/1 | □ Number every step performed in detail/2 □ For each step, mention the equipment or substance needed + observations/3 | |
| Resul | List every equipment, tool, and substance used in bullet form/1 Have a title for this section at the top/1 ts/Calculations/Discussion [25 pts] | □ Number every step performed in detail/2 □ For each step, mention the equipment or substance needed + observations/3 Conclusion [5 pts] | |
| Resul | List every equipment, tool, and substance used in bullet form/1 Have a title for this section at the top/1 ts/Calculations/Discussion [25 pts] Explain if and how purpose/goal was met/2 | □ Number every step performed in detail/2 □ For each step, mention the equipment or substance needed + observations/3 Conclusion [5 pts] □ State the goal/purpose of experiment and if | |
| Resul | List every equipment, tool, and substance used in bullet form/1 Have a title for this section at the top/1 ts/Calculations/Discussion [25 pts] Explain if and how purpose/goal was met/2 | Number every step performed in detail/2 For each step, mention the equipment or substance needed + observations/3 Conclusion [5 pts] State the goal/purpose of experiment and if it was met/2 | |
| Resul | List every equipment, tool, and substance used in bullet form/1 Have a title for this section at the top/1 ts/Calculations/Discussion [25 pts] Explain if and how purpose/goal was met/2 Include all mixture particle diagrams/10 | Number every step performed in detail/2 For each step, mention the equipment or substance needed + observations/3 Conclusion [5 pts] State the goal/purpose of experiment and if it was met/2 | |
| Resul | List every equipment, tool, and substance used in bullet form/1 Have a title for this section at the top/1 ts/Calculations/Discussion [25 pts] Explain if and how purpose/goal was met/2 Include all mixture particle diagrams/10 Show ALL calculations done and formulas used | Number every step performed in detail/2 For each step, mention the equipment or substance needed + observations/3 Conclusion [5 pts] State the goal/purpose of experiment and if it was met/2 | |
| Resul | List every equipment, tool, and substance used in bullet form/1 Have a title for this section at the top/1 ts/Calculations/Discussion [25 pts] Explain if and how purpose/goal was met/2 Include all mixture particle diagrams/10 Show ALL calculations done and formulas used/10 | Number every step performed in detail/2 For each step, mention the equipment or substance needed + observations/3 Conclusion [5 pts] State the goal/purpose of experiment and if it was met/2 | |
| Resul | List every equipment, tool, and substance used in bullet form/1 Have a title for this section at the top/1 ts/Calculations/Discussion [25 pts] Explain if and how purpose/goal was met/2 Include all mixture particle diagrams/10 Show ALL calculations done and formulas used/10 Describe any sources of error and how this may have affected results/3 | Number every step performed in detail/2 For each step, mention the equipment or substance needed + observations/3 Conclusion [5 pts] State the goal/purpose of experiment and if it was met/2 | |
| Resul | List every equipment, tool, and substance used in bullet form/1 Have a title for this section at the top/1 ts/Calculations/Discussion [25 pts] Explain if and how purpose/goal was met/2 Include all mixture particle diagrams/10 Show ALL calculations done and formulas used/10 Describe any sources of error and how this may have affected results/3 Intation [20 pts] | Number every step performed in detail/2 For each step, mention the equipment or substance needed + observations/3 Conclusion [5 pts] State the goal/purpose of experiment and if it was met/2 State final results of experiment/3 | |
| Resul | List every equipment, tool, and substance used in bullet form/1 Have a title for this section at the top/1 ts/Calculations/Discussion [25 pts] Explain if and how purpose/goal was met/2 Include all mixture particle diagrams/10 Show ALL calculations done and formulas used/10 Describe any sources of error and how this may have affected results/3 ntation [20 pts] 25% based on peer evaluation (To be given out o | Number every step performed in detail/2 For each step, mention the equipment or substance needed + observations/3 Conclusion [5 pts] State the goal/purpose of experiment and if it was met/2 State final results of experiment/3 n the day of poster presentation)/5 | |
| Resul | List every equipment, tool, and substance used in bullet form/1 Have a title for this section at the top/1 ts/Calculations/Discussion [25 pts] Explain if and how purpose/goal was met/2 Include all mixture particle diagrams/10 Show ALL calculations done and formulas used/10 Describe any sources of error and how this may have affected results/3 Intation [20 pts] | Number every step performed in detail/2 For each step, mention the equipment or substance needed + observations/3 Conclusion [5 pts] State the goal/purpose of experiment and if it was met/2 State final results of experiment/3 n the day of poster presentation)/5 | |
| Resul | List every equipment, tool, and substance used in bullet form/1 Have a title for this section at the top/1 ts/Calculations/Discussion [25 pts] Explain if and how purpose/goal was met/2 Include all mixture particle diagrams/10 Show ALL calculations done and formulas used/10 Describe any sources of error and how this may have affected results/3 ntation [20 pts] 25% based on peer evaluation (To be given out o | Number every step performed in detail/2 For each step, mention the equipment or substance needed + observations/3 Conclusion [5 pts] State the goal/purpose of experiment and if it was met/2 State final results of experiment/3 n the day of poster presentation)/5 | |

Example of poster board layout

(As long as all of the information is included, you do not have to follow this format, but make sure it is neat and organized.)



Display in front of poster board...

May want to have solutions that your group made in front of board or anything else that you may want to display to showcase your experiment.

BONUS POINTS...

Maximum of 10 bonus points for neat and organized layout and presentation.