







## Problem Solving Activity: \_\_\_\_\_

Name(s): \_\_\_\_\_

Date: \_\_\_\_\_

| GOALS  | <br><b>BRONZE</b>   | <br><b>SILVER</b>  | <br><b>GOLD</b>   | <br><b>PLATINUM</b>   |
|--|--|---|--|--|
| <p><b>Design Brief:</b></p> <p>Understand the problem, develop prototypes to solve it, test those prototypes and revise your design to make it better.</p> | <ul style="list-style-type: none"> <li>• Our design met the goals or criteria defined by the activity.</li> </ul> <input type="checkbox"/>   | <ul style="list-style-type: none"> <li>• We met Bronze</li> <li>• We tested our prototype multiple times.</li> <li>• We made at least one improvement.</li> </ul> <input type="checkbox"/>                                      | <ul style="list-style-type: none"> <li>• We met Silver</li> <li>• We made at least two improvements.</li> </ul> <input type="checkbox"/>   | <ul style="list-style-type: none"> <li>• We met Gold</li> <li>• We tested at least two different designs.</li> <li>• We picked the best design, tested it, and made several improvements.</li> </ul> <input type="checkbox"/>  |
| <p><b>Creativity:</b></p> <p>Come up with inventive and creative solutions to problems. Consider multiple solutions.</p>                                   | <ul style="list-style-type: none"> <li>• We started the activity and have at least one possible solution that looks reasonable.</li> </ul> <input type="checkbox"/>  | <ul style="list-style-type: none"> <li>• We brainstormed two to three ideas.</li> <li>• We built a working model to solve the problem.</li> </ul> <input type="checkbox"/>  | <ul style="list-style-type: none"> <li>• We brainstormed more than three ideas.</li> <li>• We built an effective model to solve the problem.</li> </ul> <input type="checkbox"/>   | <ul style="list-style-type: none"> <li>• We brainstormed many ideas.</li> <li>• We built and tested prototypes for at least two ideas.</li> <li>• We built an original and effective model that solves the problem.</li> </ul> <input type="checkbox"/>  |
| <p><b>Collaboration:</b></p> <p>Work is shared effectively and the team encourages and helps each other.</p>   | <ul style="list-style-type: none"> <li>• We sometimes worked together well but some team members did more work than others or we needed help from the teacher to resolve some disagreements.</li> </ul> <input type="checkbox"/> | <ul style="list-style-type: none"> <li>• We generally worked together well, providing help and support to each other.</li> <li>• The work was shared fairly evenly among the group members.</li> </ul> <input type="checkbox"/> | <ul style="list-style-type: none"> <li>• We worked together well, providing help and support to each other.</li> <li>• The work tasks were shared evenly.</li> <li>• We addressed issues that arose.</li> </ul> <input type="checkbox"/> | <ul style="list-style-type: none"> <li>• We worked together unusually well, overcoming unexpected obstacles by working together as a team.</li> <li>• We actively helped and supported each other.</li> <li>• We addressed issues that arose with honest, constructive feedback.</li> </ul> <input type="checkbox"/> |
| <p>Notes:</p>  |  |   |  |  |