

Benchmark #1: Identify the problem:

Write a problem statement that fully describes what the task of this project for your team is. Use the following prompt to create your statement.

How can we as

Do

So that

Benchmark #2: Research and Brainstorm

Part 1: Propose a team design idea for your mini-golf hole, having:

- a complete, neat and detailed sketch (on 8½ x 11" graph paper), with obstacles and features labeled, and the dimensions of the hole indicated. Hole design must meet rubric specifications.
 - Outline of course is labeled and scaled appropriately
 - Walls have equations in appropriate form and coordinates of vertices' are labeled
 - Obstacles have a pre-image and at least two other images (look at rubric for specific criteria) that use two different transformations
 - The obstacles have labeled coordinates.
 - Hole start position and end position
- a 100-word (min.) statement about the theme of your hole, what it represents, and how the theme is enhanced for a player through the elements of your design.

*****You are expected to research and investigate mini-golf in order to know and understand your challenge better. There is a lot to know and find out. Together with this benchmark work, post the resources you used to inform your team's design, and provide critical explanation for each resource you used in the manner described on the project rubric.***

Part 2: Present and get feedback

- Present a 3-minute overview to the class of your proposed team design, using your sketched plan, including detailed information about all critical aspects of it. What makes it an excellent design for a mini-golf hole? Describe, explain and persuade on all ideas. Read and follow the guidelines on the Oral Communication rubric (in briefcase), which will be used to assess your team proposal.
- Based on the class feedback you get, write a list of 3-5 things your team can do to improve your design. For each thing on your list, reflect as a team and write your 100-word reflection about each item (i.e., why/how these suggestions could bring improvement, what next steps are for going forward, anticipated challenges, etc.)

Benchmark #3: Revise & Design a hole-in-one path

- Incorporate revision ideas into a “new and improved” team design
- Develop a hole-in-one path, represented on your team hole design (8x11”).
 - See rubric for criteria.
- Write a 150-200 word description of the hole-in-one pathway, in procedural format, using and explaining the geometric concepts introduced in this project.

Benchmark #4: “Build it”

- Create a scaled drawing of your team’s hole design on 18x24” graph (poster) paper (not foam board, yet)
- You must receive clearance on Benchmark #4 before you can receive a foam graph board.
- Complete a full written draft of your proposal, meeting all requirements of the rubric. A guideline for content and format can be found in the briefcase.

Benchmark # 5: Evaluate it

- Collaborate as a team to give evaluative feedback to (at least) two other teams’ hole designs. Evaluative feedback form will be provided, with criteria and methods for evaluation.