

SPASH Holiday Open 2022

December 22 & 23, 2022

Purpose: Connect learning to a collaborative multidisciplinary project that benefits students and teachers across our school.

The following learning targets were the focus of the mini golf project:

Geometry:

I can...

- design a mini golf hole.
- make a scale drawing of the mini golf hole.
- use trigonometry to determine side lengths and angle measures.
- use reflections to determine the path for a hole in one.
- determine the distance that the ball travels.
- calculating the area and perimeter of composite shapes.
- determine needed materials and cost.

Construction:

I can...

- design a mini golf hole.
- make a scale drawing of the mini golf hole.
- determine materials needed.
- build a mini golf hole.
- build the obstacles for the hole.
- lay out a prototype of each hole to determine and troubleshoot any issues.
- learn about and comply with [ADA guidelines for Mini Golf courses](#).

Video Productions:

I can...

- create a promotional video.
- capture media to create a highlight video of the event.
- create a concept for each hole.
- plan/create a photo booth area.

Welding:

I can...

- operate the plasma CNC.
- design and weld score stands for each hole.



Auto Awareness:

I can...

- identify parts for items used for hole design.

Computer Graphics:

I can...

- design and print a scorecard with bleed lines.
- design and laser engrave plaques.
- print t-shirts.
- design hole signs.

Food Science

I can...

- examine different ingredients and understand how to successfully create cookies.

Residential Skills:

I can...

- differentiate between $\frac{1}{2}$ cup and 1 cup when measuring ingredients.
- with adult support, determine how much money I will have left after purchasing the materials for the cookies.
- follow step-by-step recipes with adult support.

Intro to CAD:

I can...

- Draw and design obstacles that need to be built.
- Create drawings that are to scale.
- Create 3-D renderings.