

Names: Rachel Fernicola and Alicia Six

Position: 8th grade teacher

Discipline: Science

Timing of delivery: This was a two day lesson, once plants grown in the vertical tower garden system reached maturity.

Formative assessment: Students maintained a healthy and thriving towering garden since they arrived in September. Students researched different potential uses for their plants and created presentations. Students periodically checked water levels, pH and plant growth.

Summative assessment: As a way to utilize the tower garden while encouraging sustainability and healthy food choices students created edible projects. Students worked together to create butter and salads. Students were able to choose their salad ingredients from the tower garden as well as anything additional they wanted to bring. As students were creating the butter they had to maintain a data chart to track the amount of time it took for their butter to be created. Once students created both components they were able to enjoy their healthy treats while having a class discussion and completing a sustainability game.

Teacher reflection: The lesson was effective in addressing the sustainability topic of 'Food Systems.' Students were introduced to new and healthy options of food that can be grown in sustainable ways, like using the tower garden. The enduring understanding of 'A Healthy and sustainable Future is Possible' was addressed by motivating students to grow produce they enjoy and consume in a sustainable manner. The enduring understanding of 'We Are All Responsible' was addressed by having students work together to show how everyone can contribute to a solution.

Student work examples: See attached PDF

Pictures of student activity: Below



