



Unit 3: Project Creation & Reflection

Subject Area: Digital Learning	Course: Miller Makes & Innovates		
Unit Title: Project Creation & Reflection	Grade(s): 5	Start: March	End: June
Unit Summary: In this unit, students will design and create their Miller Makes & Innovates projects and digital learning portfolios. They will present to 3rd & 4th graders during the school wide Miller Makes & Innovates student showcase.			

Stage 1: Desired Results

Massachusetts Learning Standards

- Use digital tools (local and online) to manipulate and publish multimedia artifacts.
- Create an artifact that answers a research question and clearly communicates thoughts and ideas.
- Recognize that there are many sources of and means for accessing information within a network (e.g., websites, e-mail protocols, search engines)
- Observe and describe how technology can influence people.

Transfer (Authentic, relevant application of learning to new situations)

Students will be able to independently use their learning to...

- Design and create an artifact that solves a problem for someone in their community
- Reflect upon the steps of the Engineering Design Process on their Google Site
- Present their project & digital portfolio during the Miller Makes & Innovates showcase

Meaning



Unit 3: Project Creation & Reflection

Enduring Understandings Students will understand that... • Project-based teamwork requires effective communication, collaboration, and a shared sense of purpose among team members. • Successful project-based teamwork involves leveraging the strengths and expertise of each team member to achieve common goals. • Active participation and engagement from all team members are essential for project-based teamwork to thrive and produce high-quality outcomes. • Presentations provide an opportunity for them to develop and showcase their speaking skills, boosting their confidence and self-expression.	Essential Questions Students will consider... • How can individual strengths and expertise be leveraged within a team to maximize collaboration and productivity? • How does trust and mutual respect among team members enhance collaboration and problem-solving? • What strategies can I use to engage and captivate my audience during my presentation? • How can I use visual aids, such as images or props, to enhance the clarity and impact of my presentation? • How can I actively listen and respond to questions or feedback from the audience during my presentation?
Acquisition	
Knowledge Students will know... • How to effectively work through a problem using multiple iterations • The importance of collaborating with others to strengthen ideas and concepts • The benefits of strong public speaking skills	Skills Students will be skilled at... • Updating and reflecting on a digital portfolio on Google Sites • Collaborating with others to design and create their projects • Presenting in front of peers and others in our school community