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| **Goals** | * What do you want students to know or be able to do by the end of this unit (this week, this lesson, this activity) * What content based knowledge and skills and what mission skills do you want your students to walk away with at the end of the summer? |
| **Essential Question** | * Project based learning relies on asking students to solve a large scale problem. * You need to have and present students with a clear question, challenge, or problem for them to solve. * Walk students through this question, challenge, or problem, break down that concept, and come back to it often so students can reflect on their progress. |
| **Final Product** | * In conjunction with the essential question, you also need to think through what you want students to produce – what is the end point of this project * Have a clear idea of the final product you want students to produce and relay that idea clearly to them at the outset.   + The final product could be one thing or several. It might include (but is not limited to) some of the following     - A presentation     - A sales pitch     - Blueprints/Illustrations     - Scale models     - A business plan     - An event * Walk students through what you expect – have a model to show them what you want them to accomplish. * Explain the whys – why are we doing this project and all of its parts and pieces? |
| **Plan Your Unit** | * Work backwards from your goals, the question, and your final product   + What steps will students need to take in order to complete the larger project?   + What skills and knowledge will students need in order to complete the larger project?   + In what order will students need to complete these steps in order to complete the larger project?   + Where and how will you build in time for students to explore, research, practice, create, analyze, and discover?   + When will students reflect individually, with others, and with you on their progress and choices?   + When and how will students publish or present the pieces of their project and the completed project? * How will you guide students through this entire process and provide them with what they need (materials, organization, topics, topic order, assessments, feedback) to succeed? |
| **Assessment** | * What will success look like? * How will you define success? * Will success look different for each individual student? * How will students know they have succeeded? * Does completing the final project equal success? * How can we teach students that progress and growth equal success |
| **Organization** | * Establish a system of organization to help students follow a clear path and utilize previously completed and created materials at later stages.   + Students should create a portfolio of their work – how should it be organized and when will students add to it?   + How can you build in routines to help students stay organized on a daily basis? * Provide students with clear instructions, models, and expectations for:   + Organization   + Work completion   + Peer interactions   + Classroom interactions   + Appropriate use of materials   + Classroom routines |
| **Puzzle Pieces** | * Understand that every single thing you and the students do in your classroom leading up to the final product IS the project based learning. The final outcome is important, but the entire process is the whole point. * Not every day will be about teaching a math concept * Many days will include working toward gaining mission skills (perseverance, communication, organization, empathy, curiosity, persistence, negotiation, problem solving, etc.) * Every lesson and activity helps students to build skills and knowledge that will help them to complete the final product. |

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| **Goals**  What do you want students to know or be able to do by the end of this unit? | 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| **Essential Question** |  | | |
| **Final Product** | **Final Product 1** | **Final Product 2** | **Final Product 3** |
| **Assessment**  What does success look like for each element of your final product |  |  |  |
| **Step 1** |  |  |  |
| **Step 2** |  |  |  |
| **Step 3** |  |  |  |
| **Step 4** |  |  |  |
| **Step 5** |  |  |  |
| **Step 6** |  |  |  |
| **Step 7** |  |  |  |
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| **Step 9** |  |  |  |
| **Step 10** |  |  |  |

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| **Goals**  What do you want students to know or be able to do by the end of this unit? | 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| **Essential Question** |  | | |
| **Final Product** | **Final Product 1** | **Final Product 2** | **Final Product 3** |
| **Assessment**  What does success look like for each element of your final product |  |  |  |
| **Step 1** |  |  |  |
| **Step 2** |  |  |  |
| **Step 3** |  |  |  |
| **Step 4** |  |  |  |
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| **Step 7** |  |  |  |
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| **Step 10** |  |  |  |