

# STEAM Inquiry Planning Guide

## Section I: STEAM Standards Alignment

Complete the table by identifying all standards being assessed through this inquiry, and briefly describe *how* students will address these standards.

Content	Standards	What Are Students Doing?
<p><b>Science</b> Next Generation Science Standards (NGSS) or state standards (e.g., Texas Essential Knowledge and Skills [TEKS], Standards of Learning [SOL])</p>	<p>Content Standard(s):</p> <p>Practice/Process Standard(s):</p>	
<p><b>Technology</b> International Society for Technology in Education (ISTE), Standards for Technological Literacy (STL), or state standards</p>		
<p><b>Engineering</b> Next Generation Science Standards (NGSS) or state standards</p>		
<p><b>Arts</b> National Core Arts Standards (NCAS) or state standards</p>		
<p><b>Mathematics</b> Common Core State Standards for Mathematics (CCSSM) or state standards (e.g., Texas Essential Knowledge and Skills [TEKS]; Standards of Learning [SOL])</p>	<p>Content Standard(s):</p> <p>Practice/Process Standard(s):</p>	

Sources: NGSS Lead States (2013); Texas Education Agency (2014); Virginia Department of Education (2018); ISTE (2018); International Technology Education Association (2007); National Coalition for Core Arts Standards (2018); Common Core State Standards Initiative (2010).

## Section II: STEAM Problem Statement (Engagement)

*Engagement strategies:*

Complete the following prompts.

Problem statement:

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Your criteria (think objective here):

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Your constraints:

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### Section III: STEAM Core Instructional Strategies (Exploration, Explanation, Elaboration)

*Exploration strategies:*

Formative assessment plan:

Item to Assess	Specific Prompts	Assessment Type
Mathematics Content		
Mathematics Practices/Processes		
Science Content		
Science and Engineering Practices/Processes		

*Explanation strategies:*

**Reaching Each and Every Learner Considerations**

Differentiation strategies for students with unfinished learning:

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Variations to celebrate learning differences and/or preferences:

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Extensions for deeper learning:

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*Elaboration strategies:*

Career connections plan:

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## Section IV: STEAM Assessment (Evaluation)

Describe your evaluation plan for summative assessment below. Include options for student choice, and create your rubric and/or other assessment materials. Your assessment should measure students' understanding of each standard identified in Section I.

*Evaluation plan:*

### Create Rubric and Other Assessment Materials

Stakeholder involvement ideas:

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