

Innovation Collaborative K-12 Lesson/Unit Template

STEAM is most effective as a unit or group of related experiences, not a one-time lesson.

Lesson/Unit Title

Grade Level(s)

Duration

Big Idea/Unit Overview

This will describe the overarching themes and ideas for the lesson or unit.

Objectives/Outcomes

- *What do you want students to learn and be able to do by the end of the lesson or unit?*
- *Is there an Essential Question (overarching or topical question) that will guide this lesson or unit? Essential Question example: If we can't see force, how do we know it's real? This question could be applied across disciplines.*

Language Objectives (Optional – included for states that require this)

To support emerging bilingual students and all students in their language development

- *In what ways will students develop their listening, reading, speaking, and writing skills during this lesson or unit? You can focus on one or more skills.*

Vocabulary for Both Arts and Science

- *What words are essential for students to fully understand the content?*

- *It is essential that teachers grasp the content from all disciplines involved in the lesson or unit. Content specialists will help teachers from other disciplines understand the basic concepts in their particular discipline.*

Process/Thinking Skills/Habits of Mind and how where they are used

- Disciplinary practices addressed
 - *These are practices unique to each discipline, such as, in science, the NGSS Practices.*
- Collaborative Creative/Innovative Thinking Skills used
- Arts Habits of Mind addressed (see Collaborative website – Resources)
- Problem-solving skills used (see Collaborative Thinking Skills Rubric)
- Degree of content integration (see Collaborative Content Rubric)

Materials

Resources (websites, videos, images, books, etc.)

Procedure (with modifications if needed):

Introduction

- *This is where you frame the lesson/unit, engage the students, articulate the objectives, and outline the activities in which they will engage.*

Inquiry and process

- *How are you fostering students' developing their own questions and sense of wonder?*
- *What are the step-by-step procedures you will follow?*

Closing

- *How will the students summarize what they have learned?*

Assessment

- Formative
 - *Checks for understanding along the way to inform instructional decision-making*

- Summative
 - *Did the lesson meet the objectives? In other words, did students learn what was expected? Were there any surprises along the way?*
- How are the Collaborative rubrics used?
 - *What aspects of the Collaborative Thinking Skills Rubric did you use, since it is a menu, not a checklist?*
 - *What did you find in relation to the STEAM continuum in the Collaborative Content Rubric?*

Culminating Event (Optional)

- *This could consist of events such as presentations, a STEAM night, or a student showcase.*

Teacher Reflection

- *How did STEAM promote content learning and higher-level thinking in your students?*
- *How meaningful was the content integration? What, if any adjustments need to be made?*
- *Do you need to participate in STEAM professional development to help maximize your STEAM effectiveness?*

Extensions

- *How can you take the learning even further?*

Standards:

Below is a menu of national standards that may be applicable for individual states. These are not required. Alternately, you can include state or local-based standards for arts, STEM, ELA, and other content by inserting those links below.

	Grade Level	Grade Level	Grade Level	Grade Level
ARTS: NATIONAL CORE ARTS STANDARDS (NCAS): <i>(identify which art form/s)</i>				

<p>STEM: THREE DIMENSIONAL LEARNING, <u>NEXTGEN SCIENCE STANDARDS</u>, (NSES) <i>(list crosscutting concepts)</i></p>				
<p>ELA: <u>ENGLISH LANGUAGE ARTS COMMON CORE STANDARDS</u> (CCSS): <i>(list specifics - Listening, Speaking, Reading, Writing)</i></p>				
<p>OTHER CONTENT STANDARDS: <ul style="list-style-type: none"> • <u><i>Social-emotional learning</i></u> • <u><i>Responsive Teaching for All Learners</i></u> <i>(list specifics)</i></p>				