

STEAM Unit Planning Guide



Integrated Content Areas

Standards

How do the standards in these content areas inform one another?

Big Idea

Learning Objectives

How do your lesson objectives address standards in each content area?

What will your students know or be able to do as a result of this unit?

How will students create original works of art (dance, theatre, music, visual art, or media art), opposed to copying or following prescribed steps?

Key Terms

What key terms will students be able to articulate by the conclusion of this unit?

Which arts vocabulary will be addressed?

Process Based Thinking

Which process will students use to solve problems during this unit? Examples include: Design Thinking, Engineer Design Process, Claim Evidence Reasoning

Formative Assessment

What strategies will be used to measure student understanding?

What open-ended questions will you ask to assess student mastery of content?

Are assessment strategies present for all content areas?

Do assessments clearly reflect the learning objectives?

Summative Assessment

What are the criteria for success in the summative assessment task?

Community Connections and Partners

Who in your community might you partner with?

Is there a real world connection?

Materials and Resources

What materials are needed?

What websites or other resources will you use?

Lesson Procedures

Real World Hook/ Introduction

How will you engage the students? What is the real world "hook" that will intrigue their interests?

Student Engagement through Process Based Thinking

What will students be asked to do in each step of process based thinking? What will students write and/or draw in their STEAM Journals for each step?

How will students connect new information to what they already know?

In what ways will the student engagement allow for open-ended exploration and inquiry?

Student Presentation

How will students share their findings? What form of presentation will they use?

Which community partners might provide feedback?

Student Reflection

How will you help students summarize their efforts in this unit and pose questions that will lead to the next one?