

Is it STEM, STEAM or Arts Integration? How is each approach related? Use this chart to guide your understanding.

## **STEM**

An educational approach which

intentionally integrates science,

technology, engineering, and

world learning opportunities

evidence-based explanations.

mathematics to create real-

through investigations,

problem-solving, and

An educational approach to learning that uses Science, Technology, Engineering, the Arts and Mathematics as access points for guiding student inquiry, dialogue,

and critical thinking.

**STEAM** 

## ARTS INTEGRATION

An approach to teaching and learning through which content is taught and assessed equitably in and through the arts.

**Definition** of the Approach

Use of Standards

and Assessments

Direct connection to 2 or more STEM content standards. Both content areas are assessed within the lesson.

Direct connection to naturally-aligned content and arts standards. Both are assessed within the lesson.

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Similar

**Purpose** for Using the

with another STEM area through naturally-aligned standards surrounding a point of inquiry.

Integrates any STEM area

area with another arts area through naturallyaligned standards surrounding a point of

inquiry.

**Integrates any STEM** 

Integrating the arts and any content area with another content through naturallyaligned standards.

Similar

Similar

Same

**Foundational** Support

**Approach** 

Grounded in inquiry, problem-solving and process-based learning. The lesson is created intentionally to address these focus areas.

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Grounded in aligned standards and assessment through a central topic. The lesson addresses the standards within the context of the topic.

Same

Different

Intention and Focus

STEM focuses on developing higher level thinking skills by connecting classroom learning to the real world through hands-on investigations.

STEAM is process-driven through inquiry, design and creativity. The process leads to the product through a discovery focus.

Arts integration deepens learning, application and creativity through a connective focus.

Different

Different

How it Addresses **Various Content** Areas

**Addresses STEM areas** explicitly. Can utilize the literacy process and address the social sciences through the foundational lens of the approach.

Addresses STEAM areas **explicitly**. Can utilize the literacy process and address the social sciences through the foundational lens of the approach.

Direct inclusion of all content areas, including E/LA, Social Studies, Math, Science, Technology, Engineering and other Fine Arts areas.

Similar

Different