



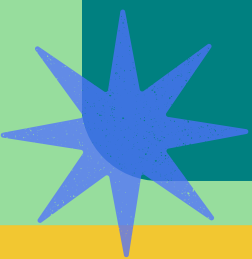
NEED HELP PLANNING A STEAM EVENT?



DAKOTA STEAM CAN HELP WITH THAT!

Check out the site to learn more about
STEAM events the Dakota STEAM way!

Best viewed on a
computer



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NAME:

STEAM PLANNING

EVENT:

DATE:

TIME:

PICK YOUR SETUP

How many projects are needed?

Passport/Station Rotations

Whole Group STEAM

FACILITATORS

How many facilitators are needed?

Who will be facilitating the event?

MARKETING

How will participants know about the event?

LOCATION

Where will this event take place?
Classrooms? Gym?

CHALLENGE CREATIONS

How many of each project?

Take Home Projects

Tear Down Project

Community Build

OTHER ACTIVITIES

Will there be.....

- special guests
- food provided
- other

GOALS

NAME:

ENGINEERING CHALLENGE

PROJECT:

THEME OR LINK

What is the project
connected to?

ESTIMATED TIME

How long will each
participant spend on this
project?

ENGINEERING TYPE OF BUILD

Take Home Project
Tear Down Project
Community Build

STEAM GROUPING

How will participants
complete the challenge?

Team

Individually

FOCUSED LANGUAGE & RESOURCES

What language resources should be provided to emphasize
language acquisition and practice?
Is the language connected to a 4C?

ENGINEERING CHALLENGE

PROBLEM

Engineering challenge

Turn the challenge into a problem
What is the problem?

CRITERIA FOR SUCCESS

What the participants
MUST do:

CONSTRAINTS STEAM RULES

Rules to Follow
Recommend 3-5

TESTING

How will participants test
their creations to ensure
they meet the criteria for
success and followed
the constraints?

NEEDED MATERIALS

What materials will participants need?
What materials can they take with them?
Which materials stay at the location?

RESOURCES

What resources should be provided to help
participants be successful?
Inspirational pictures can be provided; make sure
resources are diverse and don't encourage recreation.

ADD ANY EVENT TIPS & TRICKS

Add any engineering tips & tricks when planning this event:

- organizing materials
- creation examples
- other

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CHALLENGE CREATIONS

Take Home Projects

Tear Down Project

Community Build

OTHER ACTIVITIES

Will there be.....

- special guests
- food provided
- other

GOALS

NAME:

STEAM ART CHALLENGE

PROJECT:

THEME OR LINK

What is the project
connected to?

ESTIMATED TIME

How long will each
participant spend on this
project?

ART TYPE OF CREATION

Take Home Project

Community Build

STEAM GROUPING

How will participants
complete the challenge?

Team

Individually

FOCUSED LANGUAGE & RESOURCES

What language resources should be provided to emphasize
language acquisition and practice?
Is the language connected to a 4C?

ADD ANY EVENT TIPS & TRICKS

Add any art tips & tricks when planning this event:

- organizing materials
- creation examples
- other

STEAM ART CHALLENGE

CHALLENGE OVERVIEW

What is the challenge or inspiration?

ART TYPE

What type of art will be made?

VISUALS & RESOURCES

What resources should be provided to help participants be successful?
What visuals need to be provided for participants?

NEEDED MATERIALS

What materials will participants need?
What materials can they take with them? Stay at location?

WHERE'S THE STEAM?

How is this art a STEAM project?

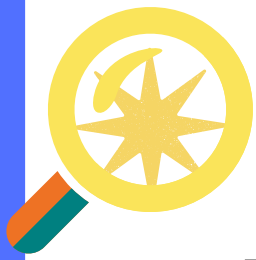
- Will it be connected to science, technology, or math?
- Will it emphasize a 4C?

LOGISTICS ART PROCESS STEPS

How will participants know what to do?

How many steps? How will the steps be presented to participants?

*Make sure the participants are making decisions within the steps.



NEED READY-MADE STEAM LESSONS & RESOURCES FOR THE EVENT?

DAKOTA STEAM CAN HELP WITH THAT!

Check out our website to learn more about
Dakota STEAM Learning's Mini Lessons!

www.dakotasteamlearning.com



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STEAM THEMES

THEME: **WINTER**

DATE:
TIME:

Recommended Dakota STEAM Lessons

ENGINEERING LESSONS

- Arctic Shelters
- Penguin Protector
- Sledding



ART LESSONS

- Tie-Dye Snowflakes
- Snowflake Salt Art



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BEST VIEWED ON A COMPUTER

