STREAM AROUND THE GLOBE

PLAN FOR FEBRUARY 2019 EVENT
GOAL

• STEM/STEAM/STREAM is a different way of teaching—using the standards, NOT adding new ones
• Working to Fulfill our STREAM plan
• Engage all students—everyone can contribute
• Impart the ideas that STREAM is involved in all we do
• Walk away with key life long skills of:
  • Critical thinking
  • Creativity
  • Collaboration
  • Communication
• Shopping Cart Video- PLEASE NOTICE ALL THE DIFFERENT TYPES OF EXPERTS ON A GIVEN TEAM

• https://www.youtube.com/watch?v=M66ZU2PCIcM

• Can you name the different types of experts who were mentioned in the video?

• Linguist
• Engineer
• Psychologist
• Business administration
• Marketing
• Biologist
STEM/ STEAM/ STREAM

Topic: ________________

Content/skills standards:
Connection to standards:
Developmentally and cognitively appropriate
This helps you to hit standards you would normally have to regardless- so it is NOT additional work

Connection to non-STEM disciplines:
Research
Writing
Presenting

Religion Connection:
Connection to religious values
Connection to Leader in Me habits

Real world connections:
How trying to find solutions helps in real life situations

Technology integration (using hands and tools):
Any type of technology usage
THE ENGINEERING DESIGN PROCESS
STREAM!
Writing Process Diagram

Prewriting
- Identifying Audience
- Defining Purpose
- Thinking
- Discussing
- Gathering Ideas
- Reading/Annotating
- Freewriting
- Outlining

Revising
- Sequence Ideas
- Organization
- Rethinking
- Supporting
- Concise Word Choice
- Audience/Purpose

Drafting

Editing
- Grammar
- Punctuation
- Spelling
- Formatting
- In-text Citation
- Works Cited/Bibliography

Peer Review
- In-Class
- Online
- The Writer's INK

Publishing
GENERAL PLAN:
UMBRELLA IS THE COUNTRY YOU CHOSE
COMBINATION OF INTERNATIONAL DAY & SCIENCE DAY

ELA PORTION- READING/ RESEARCHING/ WRITING

SOCIAL STUDIES- LEARNING SOME OF THE CULTURE, HISTORY, CUSTOMS, ETC. OF THE COUNTRY

ART- RELATES TO CULTURE OF COUNTRY

RELIGION- REGIONAL RELIGION, WHERE ISLAM FITS INTO THIS COUNTRY, MORALS & VALUES PRACTICED; how can our morals and values help solve this area’s problems

- **SCIENCE**- WHAT PROBLEMS DOES THIS COUNTRY HAVE; AND WHAT POTENTIAL SOLUTIONS COULD BE PROPOSED (RESEARCH) & POTENTIAL EXPERIMENTATION.

- **TECHNOLOGY**- ALL THE TOOLS THAT WILL BE USED THROUGHOUT THE PROCESS- BEYOND THE ELECTRONICS.

- **ENGINEERING**- WILL THE STUDENTS BUILD A MODEL OF SOMETHING IN THE COUNTRY? WILL THEY BUILD A MODEL/ PROTOTYPE OF A SOLUTION TO A PROBLEM?

- **MATH**- WILL THERE BE DATA COLLECTION, GRAPHING, & DATA ANALYSIS FROM AN EXPERIMENT? WILL THERE BE MEASUREMENT AND SCALE CALCULATIONS FOR MODELS?
PRINT OUT YOUR STANDARDS

• For each grade- print out a general information sheet about the standards that have been covered throughout this process
• See example of KG
• This is proof of the integration/ incorporation of STREAM into the curriculum standards- we are not doing this on the side, rather covering standards while doing this!
Alhuda academy's 2019 STREAM Around the Globe:

We hope you enjoyed our STREAM Around the Globe event. To help us keep improving, please take a moment to fill in our feedback card. Please make sure to drop off your filled feedback card in the office on your way out.

<table>
<thead>
<tr>
<th>Statement</th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Neutral</th>
<th>Disagree</th>
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<td>Overall, I am satisfied with the event.</td>
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<td>Concept of STREAM was clearly explained</td>
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<td>Presentations were well prepared</td>
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<td>Presentations were engaging</td>
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<td>Event organization was well executed</td>
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<td>Timing of presentations was satisfactory</td>
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<td>5-6</td>
<td>7-8</td>
<td>ALL</td>
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<td>Number of presentations attended</td>
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<td>Favorite presentation(s)</td>
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<td>Please list class(es)</td>
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<td>One(s) you wished you could see</td>
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Religion Values/standards:

Brainstorm standards here

Topic: ____________

Science Standards/practices:

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Engineering Standards/practices:

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Technology integration:

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Math Standards/practices:

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ELA Standards/practices:

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The Arts Standards/practices:

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The Arts

The STEM Education Center @ WPI
POTENTIAL SET-UP OF PRESENTATIONS

• WORK IN PROGRESS

• DISPLAY STUDENTS’ WORK IN THE ROOM- students should be keeping records in a ‘STEM’ notebook

• DIVIDE STUDENTS INTO WHO WILL PRESENT WHICH PART ON THE DAY OF THE EVENT

• HOWEVER, THEY SHOULD ALL BE AWARE OF THE DIFFERENT SECTIONS OF THE PRESENTATIONS

• MIDDLE SCHOOL WILL PRESENT IN THE SOCIAL HALL.

• ONE OF THE GOALS OF THE DAY IS TO HAVE CLASSES VISIT EACH OTHER TO SEE THE WORK THAT OTHER STUDENTS HAVE DONE

• PARENTS WILL BE INVITED TO THE EVENING PROGRAM FOR THE CLASSES TO SHOWCASE THEIR WORK
RESOURCES

• http://www.doe.mass.edu/frameworks/scitech/2016-04.pdf

• http://www.doe.mass.edu/frameworks/current.html

• http://www.bozemanscience.com/next-generation-science-standards/