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

The main problem: __Follow the Engineering Design Process

Connection to non-STEM disciplines: Research Writing Presenting

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

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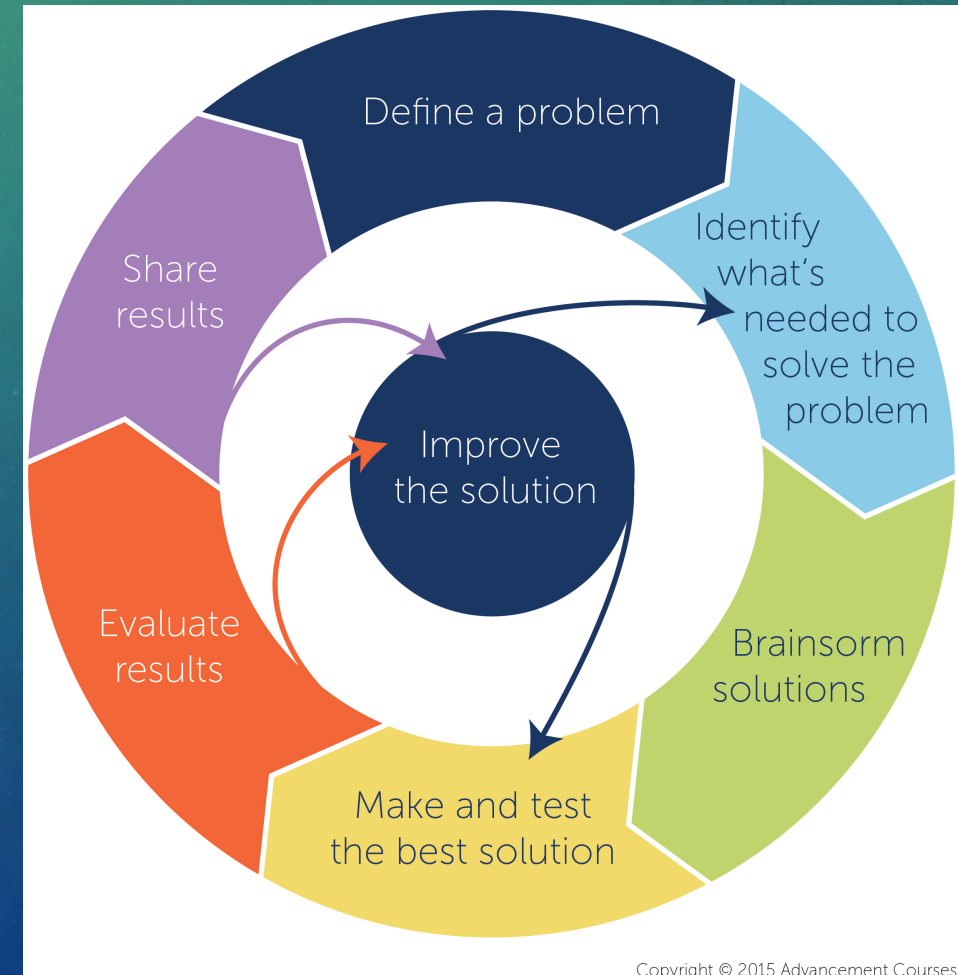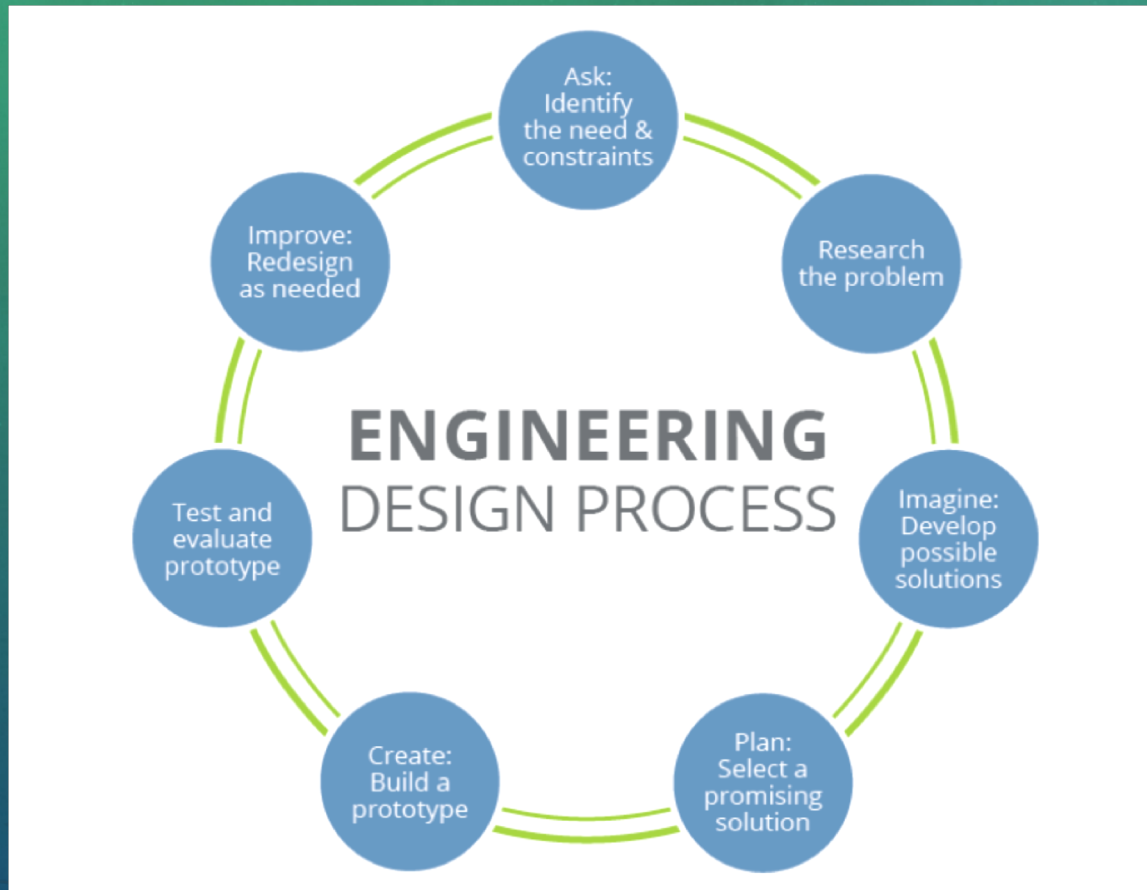
Real world connections: How trying to find solutions helps in real life situations _____

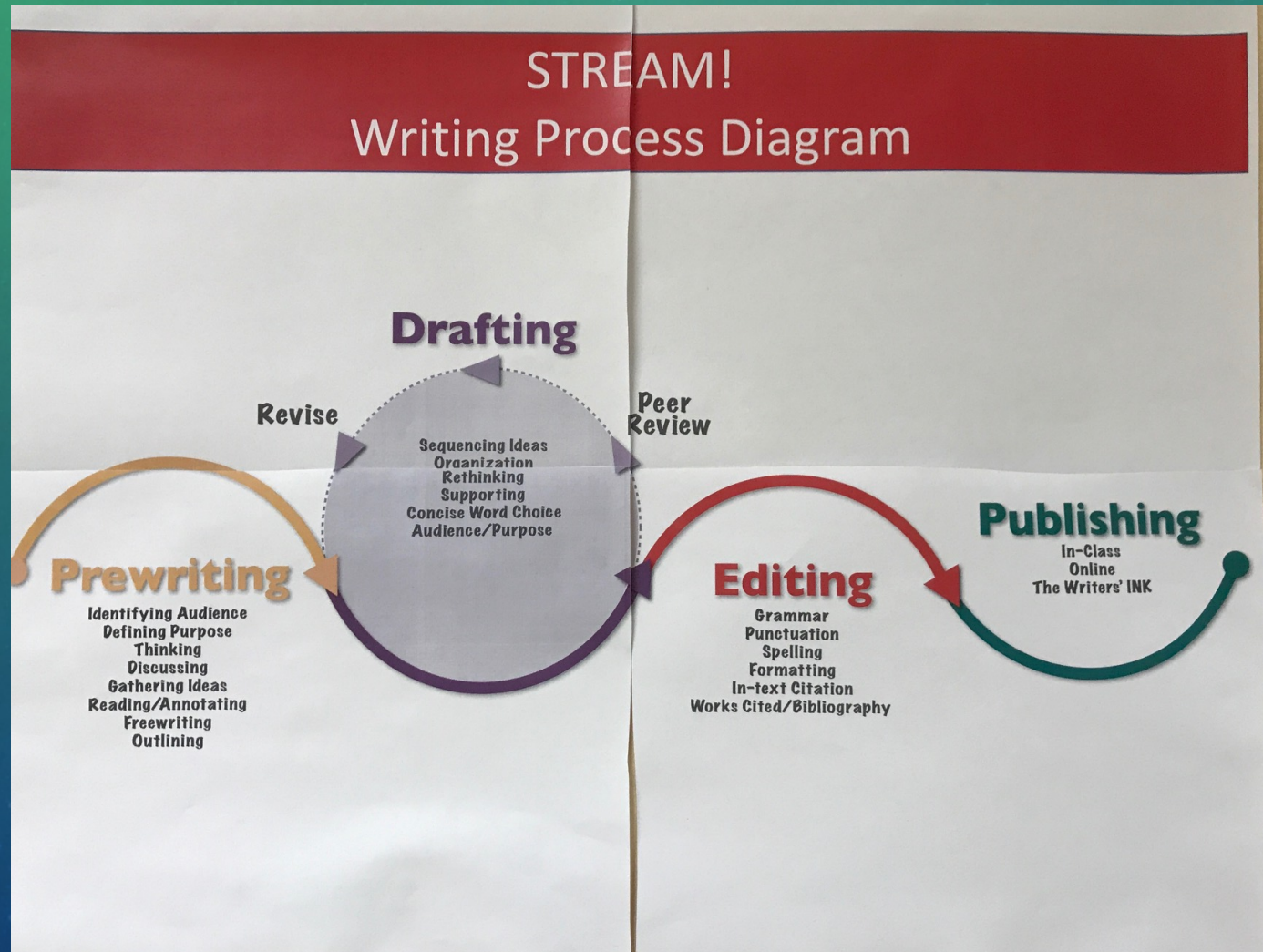**Technology integration (using hands and tools): Any type of technology usage -**

THE ENGINEERING DESIGN PROCESS

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ENGINEERING DESIGN PROCESS- WRITING VERSION- BY MRS. IVES

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.

Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Event Overall					
Overall, I am satisfied with the event.					
Concept of STREAM was clearly explained					
Presentations were well prepared					
Presentations were engaging					
Event organization was well executed					
Timing of presentations was satisfactory					
Presentations					
	1-2	3-4	5-6	7-8	ALL
Number of presentations attended					
Favorite presentation(s) Please list class(es)					
One(s) you wished you could see					

Science Standards/practices:

ELA Standards/practices:

Religion Values/standards:

Engineering Standards/practices:

Technology integration:

STREAM star
Brainstorm standards here
Topic: _____

The Arts Standards/practices:

Math Standards/practices:

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/