

**The Magnet School for Math and Science Inquiry**

**PS/IS 192**

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**To:** All classroom teachers Pre-K-6, Caiazza, Dumay, Eisig, Garcia, Loduca, Messina, Post, Suarez, Wilders,

**From:** STEM Committee

**Re:** National Engineers Week

**Date:** February 9, 2016

February 21-27, 2016 is National Engineers Week. We would like to kick off the STEM initiative by celebrating this week to acknowledge how engineers make a difference in our lives. The purpose of National Engineers Week is to call attention to the contributions to society that engineers make. It is also a time for engineers to emphasize the importance of learning math, science, and technical skills. It is observed by more than 70 engineering, education, and cultural societies, and more than 50 corporations and government agencies.

During this week we would like to dedicate some time each day to learn about a specific engineer and reflect on the contributions they have made to make our lives easier, more efficient, or more fun!

Each grade will focus on a different type of engineer. Please refer to chart below.

\*\*Middle school teachers may want to collaborate and take on a various aspect of the grade specific engineer depending on the subject you teach.

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| --- | --- |
| **Grade** | **Engineer** |
| Pre-Kindergarten | Custodial Engineer |
| Kindergarten | Chemical Engineer |
| 1st Grade | Acoustical Engineer |
| 2nd Grade | Botanical Engineer |
| 3rd Grade | Building Engineer |
| 4th Grade | Electrical Engineer |
| 5th Grade | Ocean Engineer |
| 6th Grade | Roller Coaster Engineer |
| 7th Grade | Geological Engineer |
| 8th Grade | Aerospace Engineer |

In the chart on the next page are suggested topics of focus and suggested activities for each day of the week. Feel free to use any of the ideas listed or conduct your own. Please display any charts or activities done in the hallway so that as we all walk the halls, we will have the opportunity to learn about the various types of engineers and their accomplishments and to inspire our students to get excited about engineering and encourage them to consider engineering as a career.

**Suggested Focus and Activities for**

**National Engineers Week 2016**

|  |  |  |
| --- | --- | --- |
| **Date** | **Focus:** | **Suggested Activities/Ideas (but not limited to)** |
| Monday,  February 22, 2016 | What is an engineer and  What do they do? | -- Activate prior knowledge: Ask the class what they know about engineers. (Compile their responses on a web using post it, make a chart, or have a conversation prior to reading).  -- Read the text, “What Does an Engineer Do?” By Linda Ruggieri (attached)  -- Conduct an interactive read aloud.  -- Watch a video  -- Read books found on EPIC |
| Tuesday,  February 23, 2016 | “Getting to know an Engineer”  Introduce Grade specific Engineer | -- Read information about specific engineer (attached)  -- Have students record facts on post-its or draw a picture about what they learned about the specific engineer.  -- Have students conduct research  -- Learn about the history of the specific engineer  -- Create a timeline of the evolution of their contribution |
| Wednesday,  February 24, 2016 | Make real-life connections of their work. (Grade specific engineer) | -- Discuss/list/provide examples of problems they solve/inventions they have made to solve a specific problem  -- Have students look through a magazine and cut out pictures of items that relates to that engineer and make a collage. Have students share why they selected those items.  --Research a famous engineer.  -- Have students discuss/write about a situation where we would need the help of this particular engineer |
| Thursday,  February 25, 2016 | Thank an Engineer | -- Write about why they are thankful for this type of engineer  -- Have students reflect on how this engineer makes our life easier, more efficient or fun.  -- Have students reflect on how their life would be different without this engineer. |
| Friday,  February 26, 2016 | Act like an Engineer | Visit these websites to find an activity for your students to engage in that is related to the field of engineering you have been studying all week.  The Homeschool Scientist:  <http://thehomeschoolscientist.com/100-engineering-projects-kids/>  PBS Kids:  <http://pbskids.org/zoom/activities/sci/>  ASCE:  <http://www.asceville.org/activities.html> |

If you have any questions, need resources, or need assistance please do not hesitate to ask Cathy Campanella or any members of the STEM Committee.

\*If you take pictures please email them or text them to Cathy so they can be added to our slide show in the main entrance.