**ENGINEERS’ WEEK: SECOND CLASS**

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|  | **Subject** | **Activities** |
| **Monday** | **Introducing Engineering****Introduce Engineers’ Week –** *Engineering is for Everyone!* | **Engineering*** What is an Engineer? What kind of jobs do they do?
* Engineers’ Week theme: **‘Engineering is for everyone’**! Explain that everything around us was designed by an engineer. Explain that this week we are going to learn all about engineers and become engineers ourselves!

Links:* Sesame street videos about engineering: <http://m.sesamestreet.org/topics/stem/engineering#undefined>
* James Marsden explains engineering on Sesame Street: <https://www.youtube.com/watch?v=3bPAGchXF4I>
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| **Tuesday** | **English*** Oral Language
* discuss different possible solutions to simple problems
* ask questions in order to satisfy curiosity about the world
* choose appropriate words to name and describe things and events
 | **Gingerbread Man*** Read the story and discuss ways to help the gingerbread man get safely across the river. Become engineers to help solve the problem!
* Brainstorm ideas, draw plans for bridges / boats using pictures
* Look at shapes, materials used
* Make a gingerbread man stick puppet (optional!!)

Resources:See Google Drive folder for IWB storybook, pictures and other resources. |
| **Wednesday** | **Science Tour - Imaginosity** | * Take lots of pictures!
* Get samples / photos of children’s work / worksheets (if any) to put on science blog or science exhibition
* Get DPSM certificates
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| **Thursday** | **Science*** Energy and Forces: *Forces*
* investigate how forces act on objects
* identify and investigate a range of common materials used in the environment
* begin to explore how different materials may be used in construction

**Maths*** Data: Representing
* Record and represent the number of peas held by structure
 | **Science Experiments** Activities: Suggested activities for your class. Choose whichever activities you prefer!1. Design a bridge (Free construction *or* different style bridges at each station)
* Design a bridge using folded / unfolded paper, other materials as children decide
* Test the strength of different bridges using coins / pea passengers. Record how many passengers is held by each to compare (Maths).
* see DPSM activity sheet: <http://www.primaryscience.ie/media/pdfs/col/design_a_bridge.pdf>
1. Design a boat
* Construct a boat using tinfoil / plasticine / other
* Test the strength of different boats using pea passengers. Record how many is held by each to compare (Maths).
* see DPSM activity sheet: <http://www.primaryscience.ie/media/pdfs/col/design_a_boat.pdf>

Resources:1. books, paper, coins / peas, rulers, record sheets.
2. water basins, tinfoil, plasticine, peas, record sheets
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| **Friday** | **Science Exhibition / Show and Tell:**View and discuss science work completed by other classes.Show and Tell options:* Send photos of Engineers’ Week activities to Cróna for PPT slide show, each class can describe what they did to other classes
* Bring a sample of something that was made to show to other classes
* Do a short demo for other classes

Discussion questions:* What did you do for Engineers’ week?
* What have we learned during Engineers’ week?
* What was your favourite activity during Engineers’ week?

\*\***This exhibition / show and tell fulfils the criteria for Step 5 of DPSM awards – ‘STEM showcase’** |