**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> |
| **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 |
| **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 |
| **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’** | |