|  |  |
| --- | --- |
| **Teacher: Ms. Meadows** | |
| **Date: March 24, 2015** | |
| **Subject: Literacy & Science** | |
| **Lesson 1:**  **What is an Engineer?** | |
| **Desired Results** | **Lesson Overview:**  *In this lesson students will gain an understanding of what an engineer is by reviewing “Rosie Revere,Engineer” and describing what she accomplishes when using the “design process”. Then I will explain that we will be engineers to use the materials provided to create a brand new, unique bird house for the upcoming spring season!* |
|  | [CCSS.ELA-LITERACY.RL.K.1](http://www.corestandards.org/ELA-Literacy/RL/K/1/) With prompting and support, ask and answer questions about key details in a text  [CCSS.ELA-LITERACY.RL.K.3](http://www.corestandards.org/ELA-Literacy/RL/K/3/) With prompting and support, identify characters, settings, and major events in a story.  [CCSS.ELA-LITERACY.RL.K.10](http://www.corestandards.org/ELA-Literacy/RL/K/10/) Actively engage in group reading activities with purpose and understanding.  **NGSS Standards:**   |  |  | | --- | --- | | **K-2-ETS1-** | Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. | |
|  | **Essential Question(s):**   * What is an engineer? * How does engineering affect the world around us? * How can we create a more improved birdhouse? |
|  | **Lesson Objective(s):**  *In this activity students use the design process to create a new and unique birdhouse for the upcoming spring season using the materials provided.* |
| **Plan** | **Materials:**   * Text: Rosie Revere, Engineer * Materials for birdhouses * Picture of a birdhouse * Poster of the design process |
|  | **Vocabulary:**   * Engineer * Engineering * Habitat * shelter |
|  | **EXPLORE (10 min): 10:10-10:15 a.m.**   * Review “Rosie Revere, Engineer” and discuss what it means to be an engineer. * Begin a discussion about the season of spring and how that affects animals. Ask the students how animals are changing in the season of spring. (Bring up birds and how they begin building nests and why). |
|  | **EVALUATE (10 min): 10:15-10:30**   * Tell students that an **engineer** is someone who uses science and math to develop solutions to problems. Engineers don’t just build *machines*. They also design *systems* to make things function better. * Show a picture of a birdhouse and ask the students to start brainstorming ideas of how to make a birdhouse using the materials provided.(Ask the students “What will the birds need ? What should the birdhouse have on it?” * Review the “Design Process” chart. * Ask the students to sketch a picture of what they want their birdhouse to look like. (Remind them to label and to take into consideration the materials that we have. |
| **Assessment Evidence** | **EVALUATION of Evidence**   * Observe and determine if students are able to sketch a drawing of what they would like their birdhouse to look like. * We will begin to create and build our birdhouses on Wednesday. |