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**Findley Oaks STEM Connect**

**5th Grade Design Brief**

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| **Month**  **February** | **Challenge**  Hack a Greeting Card | **Unit**  Sound |

**Standard:**

Students should follow the **Engineering Design Process.**

**Background/Problem:**

**Watch the following video.**

[Design Squad Website](http://pbskids.org/designsquad/build/hack-greeting-card/)

**Design Challenge: To set a trap and surprise someone with a sound that tricks them or tells them a command of some kind.**

**Criteria: Your hack must:**

* **include one movable part or one pop-up.**
* **include the hacked sound card.**
* **be kind and polite.**
* **be hidden and a surprise.**

Constraints:

You must work with a partner (or in a group of 3) teacher discretion.

Make sure you have a design plan before you start.

You may use some or all of the materials listed.

Materials: (per person, team or group) 2,3 (teacher discretion)

* Musical greeting card. Before buying a card, ask around to see if someone has one to give you.
* Hiding place (Cookie Jar, Pizza Box, Cereal Box, Ice cream container)
* Items from the recycle bin (if needed.)

Tools:

* Scissors
* Crazy scissors
* Staplers
* Hole punch
* Rulers
* Tape
* String
* Glue

Paper/pencil for design planning

Options: Brainstorm ideas…. make sure the students have time to plan.

Instructions can be found at the bottom of the design brief.











