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**Findley Oaks STEM Connect**

**1st Grade Design Brief**

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| **Month**  **January** | **Challenge**  **Build a Snowman** | **Unit**  **Weather**  **Changes in Water** |

**Standard:**

Students should follow the engineering design process.

**Background/Problem:**  **The city hall decorators are running behind schedule.** The Mayor of **John’s Creek (Mike Bodker) needs help decorating City Hall. He would like for you to build really tall snowmen to put in the foyer. Can you help him?**

**Design Challenge:** Working in a small group and using the materials and tools provided, design and create the tallest snowman.

**Criteria:**

Your snowman must:

* Be free standing and straight.
* Be made out of three pieces.
* Have two eyes
* One nose
* One mouth

**Constraints:** You can only use the materials provided. Everyone in your group needs to participate.

**Materials: (per group of 2,3, or 4) (teacher discretion)**

Newspaper

Toilet paper

Construction paper 1 new

Paper in the scrap box

**Tools:**

**Glue**

Markers and / or crayons

Scissors

Crazy scissors

Hole punch

Clear plastic packing tape

Meter sticks

Snowman height graph

Paper (For design planning)

Pencils

**Options:** Add winter clothing and/or accessories hats, gloves, mittens.

**Materials options:**

Paper scraps

Buttons



