**Findley Oaks Elementary**

**STEM Design Brief**

**Name: fantastic Fall Fun**

**autumn Trees**

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| **Subject:**  Fall STEM Activity | **Grade Level:**  **1** | **Suggested Timeframe:**  2+hours |

**Inspiration: https://www.youtube.com/watch?v=yb9VxLO0LCE**

**Standard:**

**S2CS3:** Students will identify and investigate problems scientifically.

**S2CS4:** Students will use the ideas of system, model, change, and scale in exploring scientific and technological matters.

B**ackground/Design Challenge:**

Help! Johns Creek, Georgia needs more trees. The city needs construction engineers to design Fall trees.

**Criteria:**

The tree must:

* Stand alone
* Be at least 6 inches tall
* Have leaves that show at least 2 Fall colors

**Constraints:**

* You will be working in a team of \_\_\_\_\_ members.
* You are limited to using only the materials listed/provided.
* Your team has \_\_\_\_\_\_\_amount of time to complete the challenge.

**Materials:** (You may select from these items.)

* Construction paper
* Brown paper bags
* Toilet paper or paper towel rolls
* Straws
* Clay
* Tape
* Glue

**Tools:** (You may use these tools, but they may not become part of your product.)

* scissors
* student research
* rulers