Drilling for Filling

# Objectives:

* Determine whether vertical or horizontal drilling is more effective.

| Vertical | Horizontal |
| --- | --- |
|  |  |

* Use the straw to extract the most filling, trying each method.

# Materials:

* 2 – Twinkies
* 4 – Bendy Straws
* 2 – Writing Utensils (two different colors)
* 2 – Paper Plates

# Drilling Records

Use the table below to measure the amount of filling in the straw. There are two rows to record your results for vertical drilling, one row for each partner. Use the rows for horizontal drilling in the same manner. Use one color for each partner when completing the table.

|  | Total Numberof Squares |
| --- | --- |
| Vertical |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Horizontal  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

Adapted from: Stem Labs. Ohio Natural Energy Institute. (n.d.). <https://www.ohionaturalenergy.org/stem-labs>