

TOOTHBRUSHING DATA COLLECTION

IN THE LIFESKILLS CLASSROOM

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Tools for Data Analysis
Spring 2017



The Life Skills Classroom: Personal Grooming

Goal: SWBAT brush their teeth independently

Target Audience: k-5 Moderate/Severe

Special Education/Life Skills class

Objective: Students will independently follow a 9 step tooth brushing process

Criteria: Students will complete steps with 80% accuracy over 3 consecutive days before moving on to the next step.

Standards

Aligned with students' IEPs



Timeline



Criteria (short term): Students will achieve 80% accuracy over 3 consecutive days before moving on to the next step.

Students will be assessed based on teacher observation.

This is an ongoing skill that will continue until IEP criteria are met.

The Spreadsheet

- Accurately track tooth brushing IEP data
- Data collection over multiple weeks
- Visual representation of data, to show IEP criteria have been met (or need to continue)

| Step 1 | Step 2 | Step 3 | Step 4 | Step 5 | Step 6 | Step 7 | Step 8 | Step 9 |
|------------------|-----------------|-------------------------|----------------|-----------------------|----------------------|-------------|-------------|-------------------|
| collect supplies | open toothpaste | put toothpaste on brush | wet toothbrush | brush front teeth 10x | brush back teeth 10x | rinse mouth | rinse brush | put away supplies |

The Spreadsheet

Each day, Paraprofessionals or Teacher fills in 1 or 0 for each of the 9 steps.

Total and percentage adjusts at the end of each row as each step is entered.

| 1 | Toothbrushing Data Collection | | | | | | | | | | | | | | |
|----|-------------------------------|-------------------------------------------------|-----------------------------------------------------------|-------------------------|----------------|-----------------------|----------------------|-------------|-------------|-------------------|-------|-------|--|--|--|
| 2 | Student: | Jayden A. | For some additional activities CLICK HERE | | | | | | | | | | | | |
| 4 | Criteria: | 80% for 3 consecutive days to move to next step | | | | | | | | | | | | | |
| 6 | | Step 1 | Step 2 | Step 3 | Step 4 | Step 5 | Step 6 | Step 7 | Step 8 | Step 9 | TOTAL | Score | | | |
| 7 | | collect supplies | open toothpaste | put toothpaste on brush | wet toothbrush | brush front teeth 10x | brush back teeth 10x | rinse mouth | rinse brush | put away supplies | | | | | |
| 8 | Monday | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 44% | | | |
| 9 | Tuesday | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 44% | | | |
| 10 | Wednesday | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 7 | 78% | | | |
| 11 | Thursday | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 | 89% | | | |
| 12 | Friday | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 100% | | | |
| 14 | Monday | | | | | | | | | | 0 | 0% | | | |
| 15 | Tuesday | | | | | | | | | | 0 | 0% | | | |
| 16 | Wednesday | | | | | | | | | | 0 | 0% | | | |
| 17 | Thursday | | | | | | | | | | 0 | 0% | | | |
| 18 | Friday | | | | | | | | | | 0 | 0% | | | |
| 20 | Monday | | | | | | | | | | 0 | 0% | | | |
| 21 | Tuesday | | | | | | | | | | 0 | 0% | | | |
| 22 | Wednesday | | | | | | | | | | 0 | 0% | | | |
| 23 | Thursday | | | | | | | | | | 0 | 0% | | | |
| 24 | Friday | | | | | | | | | | 0 | 0% | | | |
| 26 | Monday | | | | | | | | | | 0 | 0% | | | |
| 27 | Tuesday | | | | | | | | | | 0 | 0% | | | |
| 28 | Wednesday | | | | | | | | | | 0 | 0% | | | |
| 29 | Thursday | | | | | | | | | | 0 | 0% | | | |
| 30 | Friday | | | | | | | | | | 0 | 0% | | | |

| | Step 1 | Step 2 |
|-----------|------------------|-----------------|
| | collect supplies | open toothpaste |
| Monday | 1 | 1 |
| Tuesday | 1 | 1 |
| Wednesday | | 1 |
| Thursday | | 0 |
| Friday | | 1 |

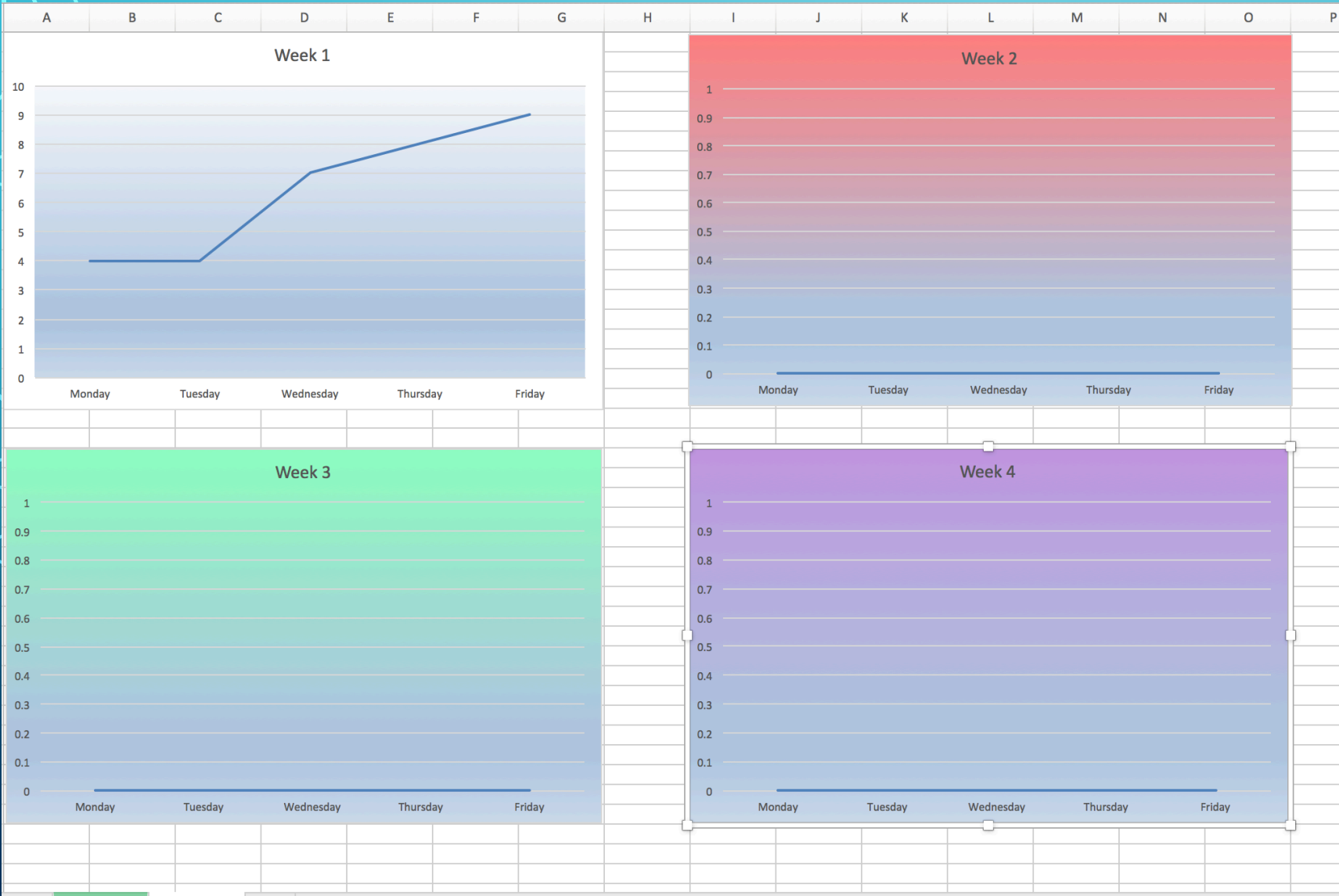
Enter 1 if completed independently Enter 0 if did not complete independently

The Spreadsheet

| | A | B | C | D | E | F | G | H | I | J | K | L | M | |
|----|-------------------------------|-------------------------------------------------|-----------------------------------------------------------|-------------------------|----------------|-----------------------|----------------------|-------------|-------------|-------------------|-------|-------|---|--|
| 1 | Toothbrushing Data Collection | | | | | | | | | | | | | |
| 2 | Student: | Jayden A. | For some additional activities CLICK HERE | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | Criteria: | 80% for 3 consecutive days to move to next step | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | Step 1 | Step 2 | Step 3 | Step 4 | Step 5 | Step 6 | Step 7 | Step 8 | Step 9 | TOTAL | Score | | |
| 7 | | collect supplies | open toothpaste | put toothpaste on brush | wet toothbrush | brush front teeth 10x | brush back teeth 10x | rinse mouth | rinse brush | put away supplies | | | | |
| 20 | Monday | | | | | | | | | | 0 | 0% | | |
| 21 | Tuesday | | | | | | | | | | 0 | 0% | | |
| 22 | Wednesday | | | | | | | | | | 0 | 0% | | |
| 23 | Thursday | | | | | | | | | | 0 | 0% | | |
| 24 | Friday | | | | | | | | | | 0 | 0% | | |
| 25 | | | | | | | | | | | | | | |
| 26 | Monday | | | | | | | | | | 0 | 0% | | |
| 27 | Tuesday | | | | | | | | | | 0 | 0% | | |
| 28 | Wednesday | | | | | | | | | | 0 | 0% | | |
| 29 | Thursday | | | | | | | | | | 0 | 0% | | |
| 30 | Friday | | | | | | | | | | 0 | 0% | | |
| 31 | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | | |

As you scroll, the steps stay in place to help avoid confusion when filling in the sheet.

Graphs in the Spreadsheet



Graphs populate on sheet 2 as data is entered into sheet 1.

Brainy Bits

Sense

Skill is broken down into its smallest components

Simple and easy to follow instruction, often utilizing hand-over-hand

Skill is taught slowly, each step building on the previously learned step

Meaning

Tooth brushing is a skill all students are familiar with (even though they cannot independently complete it yet)

Students practice this skill at home daily as well as watch siblings and/or parents complete it

Brainy Bits

Part 2

The Lobes

Frontal Lobe: utilizing working memory as we build the skill

The Motor Cortex works to control the movements necessary for acquiring the skill

Temporal Lobe: listening to directions and object recognition

Occipital Lobe: visual processing- figuring out how and where things go (toothpaste on the brush, collecting supplies, etc)

Parietal Lobe: remembering what we have already learned, to continue to build the skill

Citations

Sousa, David A. How the Brain Learns. (4th ed.). Thousand Oaks, CA: Corwin Press, Inc. 2011

Image Credits:

Slide 1

<http://thekiddspace.com/dental-treatment-for-handicapped-children/>

Slide 3

<http://www.pnwumc.org/event/charge-conference-paperwork-due/>