## Mrs. Brown's Class <br> Group Score Summary

| Examinee Name | $\underset{\text { ID }}{\text { Examinee }}$ | Age | Test Date | Form | Raw Score | Standard Score | 90\% Confidence Interval | Percentile | NCE | Stanine | Age <br> Equivalent | GSV |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Arturo Student | 78958552 | 9:2 | 10/01/2019 | B | 162 | 160 | 151-162 | >99.9 | >99 | 9 | >24:11 | 519 |
| Bob Student | 2479455 | 7:2 | 10/10/2019 | A | 16 | 51 | 48-57 | 0.1 | <1 | 1 | <2:6 | 436 |
| Debra Student | 2434234 | 8:1 | 09/14/2019 | B | 107 | 101 | 97-105 | 53 | 51 | 5 | 8:4 | 495 |
| Ezra Student | 667774744 | 8:7 | 11/01/2019 | A | 120 | 109 | 105-113 | 73 | 63 | 6 | 9:9 | 500 |
| James Student | 5243759 | 6:7 | 09/18/2019 | A | 83 | 92 | 87-98 | 30 | 39 | 4 | 5:8 | 481 |
| Jody Student | 128546 | 7:7 | 07/07/2019 | B | 108 | 108 | 104-112 | 70 | 61 | 6 | 8:5 | 496 |
| Josh Student | 87622363 | 8:5 | 10/20/2019 | A | 168 | 160 | 154-162 | >99.9 | >99 | 9 | >24:11 | 523 |
| Olga Student | 627260 | 8:8 | 10/01/2019 | A | 112 | 99 | 95-103 | 47 | 49 | 5 | 8:8 | 497 |
| Ricky Student |  | 8:1 | 10/15/2019 | A | 153 | 160 | 154-162 | >99.9 | >99 | 9 | 17:11 | 515 |
| Yolanda Student | 2945749 | 8:11 | 09/22/2019 | A | 126 | 113 | 108-117 | 81 | 68 | 7 | 10:8 | 503 |

## Group Averages

8:2
115
84
71
7

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[ 1.6 / RE1 / QG1 ]

## Group Qualitative Analyses

The tables below provide qualitative analysis information. Reporting qualitative data is based on entry of item response/score data. If item response/score data is not available, a hyphen is printed in the table and that administration will not be included in the group average percent correct calculation.

## Home vs. School Vocabulary Qualitative Analysis

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Examinee Name | Examinee <br> ID | Form | Test Date | Attempted | Correct | \% Correct | Attempted | Correct | \% Correct |
| Arturo Student | 78958552 | B | $10 / 01 / 2019$ | 4 | 4 | 100 | 109 | 90 | 83 |
| Bob Student | 2479455 | A | $10 / 10 / 2019$ | 11 | 4 | 36 | 4 | 2 | 50 |
| Debra Student | 2434234 | B | $09 / 14 / 2019$ | 9 | 6 | 67 | 69 | 48 | 70 |
| Ezra Student | 667774744 | A | $11 / 01 / 2019$ | 5 | 4 | 80 | 83 | 63 | 76 |
| James Student | 5243759 | A | $09 / 18 / 2019$ | 10 | 7 | 70 | 48 | 36 | 75 |
| Jody Student | 128546 | B | $07 / 07 / 2019$ | 12 | 10 | 83 | 71 | 58 | 82 |
| Josh Student | 87622363 | A | $10 / 20 / 2019$ | 5 | 4 | 80 | 131 | 111 | 85 |
| Olga Student | 627260 | A | $10 / 01 / 2019$ | 4 | 3 | 75 | 72 | 56 | 78 |
| Ricky Student |  | A | $10 / 15 / 2019$ | 5 | 4 | 80 | 111 | 96 | 86 |
| Yolanda Student | 2945749 | A | $09 / 22 / 2019$ | 5 | 4 | 80 | 85 | 69 | 81 |

## Home vs. School Vocabulary Averages

| Home vs. School | Average \% Correct | 10\% | 20\% |  | 30\% |  | 40\% |  | 50\% |  | 60\% |  | 70\% | \% |  | \% | 90\% | \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Home | 75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| School | 77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Vocabulary by Part of Speech Qualitative Analysis

|  |  |  |  | Noun |  |  | Verb |  |  | Attribute |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Examinee Name | Examinee ID | Form | Test Date | Attempted | Correct | \% Correct | Attempted | Correct | \% Correct | Attempted | Correct | \% Correct |
| Arturo Student | 78958552 | B | 10/01/2019 | 76 | 65 | 86 | 18 | 15 | 83 | 19 | 14 | 74 |
| Bob Student | 2479455 | A | 10/10/2019 | 11 | 5 | 45 | 2 | 1 | 50 | 2 | 0 | 0 |
| Debra Student | 2434234 | B | 09/14/2019 | 62 | 44 | 71 | 7 | 5 | 71 | 9 | 5 | 56 |
| Ezra Student | 667774744 | A | 11/01/2019 | 70 | 54 | 77 | 6 | 5 | 83 | 12 | 8 | 67 |
| James Student | 5243759 | A | 09/18/2019 | 48 | 33 | 69 | 3 | 3 | 100 | 7 | 7 | 100 |
| Jody Student | 128546 | B | 07/07/2019 | 66 | 53 | 80 | 8 | 8 | 100 | 9 | 7 | 78 |
| Josh Student | 87622363 | A | 10/20/2019 | 91 | 78 | 86 | 18 | 15 | 83 | 27 | 22 | 81 |
| Olga Student | 627260 | A | 10/01/2019 | 61 | 47 | 77 | 5 | 3 | 60 | 10 | 9 | 90 |
| Ricky Student |  | A | 10/15/2019 | 82 | 74 | 90 | 12 | 10 | 83 | 22 | 16 | 73 |
| Yolanda Student | 2945749 | A | 09/22/2019 | 72 | 60 | 83 | 6 | 5 | 83 | 12 | 8 | 67 |

## Vocabulary by Part of Speech Averages



Three Tier Model of Vocabulary Qualitative Analysis

|  |  |  |  | Tier 1 |  |  | Tier 2 |  |  | Tier 3 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Examinee Name | $\begin{gathered} \text { Examinee } \\ \text { ID } \end{gathered}$ | Form | Test Date | Attempted | Correct | \% Correct | Attempted | Correct | \% Correct | Attempted | Correct | \% Correct |
| Arturo Student | 78958552 | B | 10/01/2019 | 2 | 2 | 100 | 83 | 70 | 84 | 28 | 22 | 79 |
| Bob Student | 2479455 | A | 10/10/2019 | 11 | 4 | 36 | 3 | 1 | 33 | 1 | 1 | 100 |
| Debra Student | 2434234 | B | 09/14/2019 | 6 | 4 | 67 | 49 | 35 | 71 | 23 | 15 | 65 |
| Ezra Student | 667774744 | A | 11/01/2019 | 5 | 4 | 80 | 59 | 45 | 76 | 24 | 18 | 75 |
| James Student | 5243759 | A | 09/18/2019 | 10 | 7 | 70 | 32 | 24 | 75 | 16 | 12 | 75 |
| Jody Student | 128546 | B | 07/07/2019 | 8 | 7 | 88 | 52 | 41 | 79 | 23 | 20 | 87 |
| Josh Student | 87622363 | A | 10/20/2019 | 5 | 4 | 80 | 96 | 81 | 84 | 35 | 30 | 86 |
| Olga Student | 627260 | A | 10/01/2019 | 4 | 3 | 75 | 51 | 39 | 76 | 21 | 17 | 81 |
| Ricky Student |  | A | 10/15/2019 | 5 | 4 | 80 | 79 | 67 | 85 | 32 | 29 | 91 |
| Yolanda Student | 2945749 | A | 09/22/2019 | 5 | 4 | 80 | 59 | 51 | 86 | 26 | 18 | 69 |

## Three Tier Model of Vocabulary Averages



## STEM Vocabulary Qualitative Analysis

|  |  |  |  | STEM |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Examinee Name | Examinee <br> ID | Form | Test Date | Attempted | Correct | \% Correct |
| Arturo Student | 78958552 | B | $10 / 01 / 2019$ | 32 | 24 | 75 |
| Bob Student | 2479455 | A | $10 / 10 / 2019$ | 1 | 1 | 100 |
| Debra Student | 2434234 | B | $09 / 14 / 2019$ | 25 | 15 | 60 |
| Ezra Student | 667774744 | A | $11 / 01 / 2019$ | 29 | 24 | 83 |
| James Student | 5243759 | A | $09 / 18 / 2019$ | 21 | 15 | 71 |
| Jody Student | 128546 | B | $07 / 07 / 2019$ | 27 | 23 | 85 |
| Josh Student | 87622363 | A | $10 / 20 / 2019$ | 43 | 35 | 81 |
| Olga Student | 627260 | A | $10 / 01 / 2019$ | 27 | 23 | 85 |
| Ricky Student |  | A | $10 / 15 / 2019$ | 37 | 34 | 92 |
| Yolanda Student | 2945749 | A | $09 / 22 / 2019$ | 31 | 24 | 77 |

## STEM Vocabulary Averages

|  | Average <br> $\%$ Correct | $10 \%$ | $20 \%$ | $30 \%$ | $40 \%$ | $50 \%$ | $60 \%$ | $70 \%$ | $80 \%$ | $90 \%$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STEM | 81 |  |  |  |  |  |  |  |  |  |  |

## Group Averages by Demographics

The tables below provide group averages broken down by gender, grade, and race/ethnicity. Reporting information for a student's gender, grade, and race/ethnicity is optional; demographic categories are omitted from the tables below if no data were collected. Calculation of each Group Average by Demographics is based on the information that is reported. Therefore, the group total reported for each demographic table may not match the total reported in the Group Score Summary.

## Group Average by Gender

| Gender | Total in <br> Group | Average Standard <br> Score | Percentile | NCE | Stanine |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Female | 4 | 105 | 63 | 57 | 6 |
| Male | 6 | 122 | 93 | 81 | 8 |

## Group Average by Grade

| Grade | Total in <br> Group | Average Standard <br> Score | Percentile | NCE | Stanine |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1^{\text {st }}$ Grade | 2 | 72 | 3 | 11 | 1 |
| $2^{\text {nd }}$ Grade | 5 | 128 | 97 | 89 | 9 |
| $3^{\text {rd }}$ Grade | 3 | 124 | 95 | 84 | 8 |

## Group Average by Race/Ethnicity

| Race/Ethnicity | Total in <br> Group | Average Standard <br> Score | Percentile | NCE | Stanine |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Asian | 2 | 111 | 77 | 65 | 6 |
| Black/African-American | 3 | 101 | 53 | 51 | 5 |
| Hispanic/Latino | 1 | 101 | 53 | 51 | 5 |


| Race/Ethnicity | Total in <br> Group | Average Standard <br> Score | Percentile | NCE | Stanine |
| :---: | :---: | :---: | :---: | :---: | :---: |
| White | 4 | 132 | 98 | 95 | 9 |

## Suggested Interventions

Effective vocabulary interventions are informed by the accumulated scientific evidence concerning how individuals learn new words, why some individuals lag in their vocabulary development, and what kinds of interventions are most effective for bringing about change in vocabulary development. The accumulated evidence suggests that effective vocabulary interventions will reflect five principles. When collectively applied to the design of vocabulary interventions, the five principles will provide a robust means for accelerating the vocabulary growth of infants through adults. Use these principles when discussing intervention/instruction adjustments with classroom teachers, parents/guardians, and other members of the educational team.

- Principle of Interest: This principle emphasizes the importance of promoting an individual's interest in words as objects of attention and scrutiny.
- Principle of Use: This principle emphasizes the importance of an individual's active engagement with words as an effective route to learning new words.
- Principle of Explicitness: This principle emphasizes the need to provide clear connections between words and their meanings to facilitate learning.
- Principle of Repetition: This principle emphasizes that one learns the meaning of a word only gradually over time and with repeated exposures to that word in a variety of different contexts.
- Principle of Intensity: This principle emphasizes the importance of addressing as many words as possible within vocabulary interventions to promote breadth of knowledge.

Two sets of suggested interventions for the EVT-3 are provided in this report. The first set includes general, evidence-based strategies and activities embedded directly within the report. The second set provides information from an additional resource, The Bridge of Vocabulary 2, also available on Q-global (sold separately).

## Evidence-Based Vocabulary Interventions

Based on the group's average age of 8:2, the activities listed below are suggested to further develop the vocabulary skills of this group.
Expressive, Group 3 (E3):
E3-A. Cooperative Learning/Peer Tutoring
E3-B. Robust Vocabulary Instruction
E3-C. Morphemic Analysis

## Expressive, Group 3 (E3)

## E3-A. Cooperative Learning/Peer Tutoring

Cooperative learning is a common instructional technique in which students work in pairs or small groups to teach one another. Some of the benefits of cooperative learning are that students can work independently while engaging in intellectual discussions, which together can result in improved student motivation and increased time on task (National Reading Panel, 2000). Importantly, cooperative learning can also be used as a tool for building children's expressive vocabulary skills.

An activity described by Miller, Barbetta, and Heron (1994) involved students working in pairs to teach each other target vocabulary words. In this activity, student pairs received a stack of cards on which a target word was printed on one side (e.g., miasmic) and the definition was printed on the other. The cards were divided between the two students, who would take turns playing tutor and tutee. The tutor presented a word to the tutee, who then provided a response that was praised or corrected by the tutor. Words were put into two piles by the tutor to differentiate those mastered from those not mastered by the tutee. After a period of time, the two students switched roles. To promote learning and retention of words over time, student pairs can graph each other's performance and monitor growth in words known for a period of time (e.g., over five consecutive days).

## References

Miller, A. D., Barbetta, P. M., \& Heron, T. F. (1994). START tutoring: Designing, training, implementing, adapting, and evaluating tutoring programs for school and home settings. In R. Gardner, III, D. M. Sainato, J. O. Cooper, T. E. Heron, W. L. Heward, J. W. Eshleman, \& T. A. Grossi (Eds.), Behavior analysis in education: Focus on measurably superior instruction (pp. 265-282). Pacifica Grove, CA: Brookes/Cole.

National Reading Panel (2000). Report of the National Reading Panel: Teaching children to read. Washington, DC: Author.

## E3-B. Robust Vocabulary Instruction

Robust vocabulary instruction is a term coined by Isabel Beck and her colleagues (Beck, McKeown, \& Kucan, 2013) to describe an approach to vocabulary instruction in which words are brought to life for students. Beck and colleagues argue that typical vocabulary instruction lacks many things and does little to provoke children's independent interest in and motivation toward words. With robust vocabulary instruction, students learn to be intrigued by and curious about words and word meanings that they do not know. Given that there are far too many words to teach to children through direct instruction, Beck and colleagues suggest that robust vocabulary instruction provides a critical avenue for making children seek out the learning of new words on their own and becoming independent learners of vocabulary.

To provide robust vocabulary instruction, teachers and other professionals must ensure that students have ample opportunities to both hear and explore previously unknown words. In a classroom using robust vocabulary procedures, several new words are introduced each day in various contexts and activities. An important feature of robust vocabulary instruction is allowing children to hear "student-friendly definitions" that make sense to them and then generate their own definitions of words. Some activities that might be used in robust vocabulary instruction to provide student-friendly definitions and to help students engage meaningfully and enjoyably with new words are these:

1. Linking words to children's lives: Play a "have you ever" game with children that poses a question about a new word, as in, "Have you ever felt exhausted? Tell me about it..."
2. Finding out which words children like: Play an "applause, applause" game with children in which they clap softly versus loudly for words they like or don't like or words they would like used to describe them versus those they would not.
3. Elaborating words during storybook reading interactions: Select several unknown words from storybooks read to the class, and pause during reading to discuss the meanings of these words. Allow children to give definitions using their own words and examples.

Reference:
Beck, I. L., McKeown, M. G., \& Kucan, L. (2013). Bringing words to life: Robust vocabulary instruction (2nd ed.). New York, NY: Guilford Press.

## E3-C. Morphemic Analysis

When children come upon new words and must decipher their meaning, they can utilize their knowledge of morphology to help them. Experts contend that students can self-teach themselves new words, thus increasing the breadth and depth of their vocabulary substantially by conducting morphemic analysis (Baumann, Edwards, Boland, \& Font, 2012; Carlisle, 2010; Mann \& Singson, 2003). Morphemic analysis involves examining the root and affix structures of words and is an appropriate focus of vocabulary instruction beginning in the fourth grade (Baumann et al., 2012). Typically, instruction in morphemic analysis focuses on teaching the most common prefixes (e.g., un-, re-, in-, dis-) and derivational suffixes (e.g., -less, -ness, -ment, -er).

One approach used in teaching morphemic analysis involves teaching children about word families (Nagy \& Anderson, 1984). A word family is a root word and all of its derived forms that are created through additions of suffixes and prefixes. For instance, family members of the root word work include schoolwork, worker, workman, overworked, and so forth. A useful activity for teaching children about word families is to provide a target word and develop a family map around that word that contains all of the possible derivations. When creating the map, direct students to think about word formation (e.g., How did we change work to schoolwork?) and also think about the differences and similarities in meaning among words in a given family. By modeling both, guide students toward conducting such analyses independently when they encounter unknown words. A sequence of instruction for affixes is provided in Bear, Invernizzi, Templeton, and Johnston (2004).

References:
Baumann, J. F., Edwards, E. C., Boland, E., \& Font, G. (2012). Teaching word-learning strategies. In E. J. Kame'enui \& J. F. Baumann (Eds.), Vocabulary instruction: Research to practice (2nd ed., pp. 139-168). New York, NY: Guilford Press.

Bear, D. R., Invernizzi, M., Templeton, S., \& Johnston, F. (2004). Words their way: Word study for phonics, vocabulary, and spelling (3rd ed.). Upper Saddle River, NJ: Pearson

Carlisle, J. F. (2010). Effects of instruction in morphological awareness on literacy achievement: An integrative review. Reading Research Quarterly, 45(4), 464-487. doi:10.1598/RRQ.45.4.5

Mann, V., \& Singson, M. (2003). Linking morphological knowledge to English decoding ability: Large effects of little suffixes. In E. M. H. Assink \& D. Sandra (Eds.), Reading complex words: Cross-language studies (pp. 1-25). Boston, MA: Springer.

Nagy, W. E., \& Anderson, R. C. (1984). How many words are there in printed school English? Reading Research Quarterly, 19(3), 304-330. doi:10.2307/747823

## Suggested Vocabulary Activities

The Bridge of Vocabulary 2 by Judy K. Montgomery offers an explicit set of vocabulary intervention activities that are tied to evidence-based research and to academic standards. These activities were developed for both general and special education professionals to use together as part of an interprofessional practice model. They can apply to individual student intervention or groups of students up to and including full classroom usage.

Based on the group's average age of 8:2, you may want to review the following sections in The Bridge of Vocabulary 2 for additional intervention activities.

## The Bridge of Vocabulary 2 Upper Elementary (UE) Topic List

Antonyms \& Synonyms
Classification \& Categorization
Compound Words
Meaning \& Usage
Storytelling
Word Parts (Prefixes, Suffixes, \& Roots)
Word Play
Reference:
Montgomery, J. K. (2019). The bridge of vocabulary (2nd ed.). Bloomington, MN: NCS Pearson.

## End of Report

