**Strands of MPIs** **developed by ACS BRES 4th grade teachers  
Ashley Bowers, Annabell Bennett, and Allie Shoemake, and Kathy Evans, ESL**

**GRADE 4**

**ELD STANDARD: The Language of Mathematics**

**EXAMPLE TOPIC: Numbers and Operations, fractions**

**CONNECTION: *Common Core Standards for Mathematics Standard 4.NF.7*** Compare fractions and decimals in real world and mathematical problems.

**EXAMPLE CONTEXT FOR LANGUAGE USE:** Students will construct the value of tenths and hundredths using various models.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **COGNITIVE FUNCTION:** Students at all levels of English language proficiency **APPLY** their understanding of fractions and decimals to real-life situations. | | | | | | |
| **DOMAIN: Speaking** | **Level 1**  **Entering** | **Level 2**  **Emerging** | **Level 3**  **Developing** | **Level 4**  **Expanding** | **Level 5**  **Bridging** | **Level 6 - Reaching** |
| After a whole group lesson introducing fractions and decimals, students will use a model to match the values of the decimal to the appropriate hundredths grid. Students will repeat the teacher saying the value of the decimal and point to the corresponding place value on the place value chart. | After a whole group lesson introducing fractions and decimals, students will use a model to match and sort the values of the decimal to the appropriate hundredths grid. After repeating the teacher saying the value of the decimal and point to the corresponding place value on the place value chart, students will tell a partner this information using the same number values. | After a whole group lesson introducing fractions and decimals, students will use a model (dimes and pennies), to identify the values of the decimal to the appropriate hundredths grid. After telling the teacher the value of the decimal and pointing to the corresponding place value on the place value chart, students will tell and demonstrate to a partner using a different decimal value. | After a whole group lesson introducing fractions and decimals, students will show the expanded form of a decimal value using a combination of dimes and pennies. After telling and demonstrating to a partner, students will practice building various decimal values independently. | After a whole group lesson introducing fractions and decimals, students will show the expanded form of a decimal value using a combination of dimes and pennies. Students will practice building various decimal values independently with peer and teacher support if necessary. Students will reference question stems to discuss with a partner various ways to show tenths and hundredths of a dollar. |
| **TOPIC-RELATED LANGUAGE:** Students at all levels of English language proficiency interact with grade-level words and expressions, such as: tenths, hundredths, value, worth, decimal, compare, equal, equivalent, greater than, less than, fraction, numerator, denominator, money terms and values | | | | | | |