**Mathematical Diagnostic Assessment: Fractions**

Name …………………………………………….. Year group …….. Date ………

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| **Half (quarter) of a shape**   * Given different shapes with folds (not all that fold into halves), can you show me which have been folded in half? * How do you know these are folded in half? * Can you fold this square (triangle, rectangle, circle, etc) in half (quarters)? * Strips of paper in different lengths, can you fold them in half (quarters)? |  |
| **Counting in halves / quarters**   * How many halves make one (two, three, etc) whole? * How many halves do you have if you have two and a half apples? * How many quarters make one whole one? * Can you count in halves (quarters)? * If one quarter of a pizza is eaten, what fraction of the pizza is left? * If one quarter of children go home from school for lunch, what fraction of children have lunch at school? |  |
| **Symbolisation**   * How do you record one half (one quarter) in symbols? |  |
| **Half / quarter of a quantity**   * Show me half of these fish (start with 6 fish, build up quantity as appropriate) Pupil to use chosen objects to show how they are working out their answer. * Show me one quarter of…. * Shade half of a shape, when the shape is divided into an even number of equal pieces. * Shade one quarter of a shape when the shape is divided into 8 (12, 16, 20, etc) pieces. |  |
| **Fractions of a quantity**   * Use a bar model to show half of eight (10, 12, 18, etc). * Pupils to use objects to access this if necessary. * Use a bar model to show one quarter of 8 (12, 16, 20, etc). * If half of class are boys, and there are ten boys. How many children are there in the class? * One quarter of the cookies are chocolate and there are five chocolate cookies. How many cookies are there altogether? |  |

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| Summary notes |