

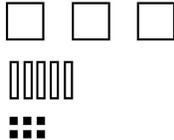
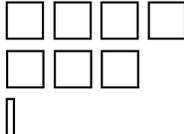
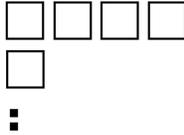
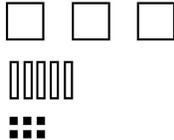
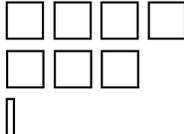
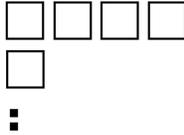
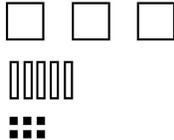
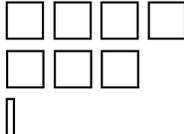
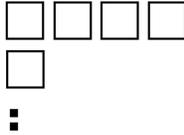
PLACE VALUE CHARTS

Level	2 (Age group 8-10)
Resources Required	Pen or Pencil Paper Place Value Cards
Alternate Options for the Resources	To make place value cards: <ol style="list-style-type: none"> 1. Cut out pieces of paper the size of your palm. 2. On each card, write or draw a number in standard, expanded, word, or block form. See examples in Images/Illustrations.
Strand Covered	Numbers and Operations
Targeted Skills	Place Value of 3 digit numbers
Inspired by	We are the teachers
Time Required	20 minutes for the game 30 minutes for preparation
Previous Learning Required	Knowledge of numbers 1-1000
Support Required	Medium supervision

Rules of the Game:

Goal	The pair who sorts all of their place value cards first wins.
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<p>Steps</p>	<p>Step 1: The teacher splits the class into pairs and creates a deck of place value cards for each pair. A deck of place value cards should have at least 16 cards with 4 sets of 4 cards that represent the same number in the 4 different forms (standard, expanded, word, and block). See Images/Illustrations for an example of a 16 card deck.</p> <p>Step 2: The teacher makes sure that each deck is shuffled well and gives each pair one deck face down.</p> <p>Step 3: When the teacher says “start”, students flip their deck of place value cards face up and groups them into groups of 4, where every card in the same group represents the same number.</p> <p>Step 4: When a pair of students finishes sorting their cards, they raise their hands. The teacher checks their groups, and if there are no mistakes, then that pair wins the game.</p>																							
<p>Images or Illustrations</p>	<table border="1"> <thead> <tr> <th data-bbox="467 863 711 915">Standard</th> <th data-bbox="711 863 948 915">Expanded</th> <th data-bbox="948 863 1187 915">Word</th> <th data-bbox="1187 863 1425 915">Block</th> </tr> </thead> <tbody> <tr> <td data-bbox="467 915 711 1152">356</td> <td data-bbox="711 915 948 1152"> 300 $+ 50$ $+ 6$ </td> <td data-bbox="948 915 1187 1152">Three hundred fifty-six</td> <td data-bbox="1187 915 1425 1152">  </td> </tr> <tr> <td data-bbox="467 1152 711 1390">121</td> <td data-bbox="711 1152 948 1390"> 100 $+ 20$ $+ 1$ </td> <td data-bbox="948 1152 1187 1390">One hundred twenty-one</td> <td data-bbox="1187 1152 1425 1390">  </td> </tr> <tr> <td data-bbox="467 1390 711 1627">710</td> <td data-bbox="711 1390 948 1627"> 700 $+ 10$ </td> <td data-bbox="948 1390 1187 1627">Seven hundred ten</td> <td data-bbox="1187 1390 1425 1627">  </td> </tr> <tr> <td data-bbox="467 1627 711 1864">502</td> <td data-bbox="711 1627 948 1864"> 500 $+ 2$ </td> <td data-bbox="948 1627 1187 1864">Five hundred two</td> <td data-bbox="1187 1627 1425 1864">  </td> </tr> </tbody> </table>				Standard	Expanded	Word	Block	356	300 $+ 50$ $+ 6$	Three hundred fifty-six		121	100 $+ 20$ $+ 1$	One hundred twenty-one		710	700 $+ 10$	Seven hundred ten		502	500 $+ 2$	Five hundred two	
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Enrichment	<ul style="list-style-type: none">● Use 4 digit or 5 digit numbers.● Use more than 4 different representations of the same number using objects that students are familiar with, like money and time.
Simplification	<ul style="list-style-type: none">● Use only 2 digit numbers.● Have students work in larger groups.