

# Mini-Map for M.EE.6.NS.2

Subject: Mathematics The Number System (NS) Grade: 6

# Learning Outcome

DLM Essential Element	Grade-Level Standard		
<b>M.EE.6.NS.2</b> Apply the concept of fair share and equal shares to	M.6.NS.2 Fluently divide multi-digit numbers using the standard		
divide.	algorithm.		

## Linkage Level Descriptions

Initial Precursor	Distal Precursor	Proximal Precursor	Target	Successor
Communicate	Divide a set containing	Communicate	Demonstrate	Divide a number within
understanding of	10 or fewer objects into	understanding that	understanding of	12 by a divisor from 1 to
"separateness" by	equal subsets (e.g.,	repeated subtraction is	division by splitting a	5 to determine the
recognizing objects that	divide a set consisting	subtracting equal	set into an equal	quotient, using
are not joined together.	of 10 counters into two	groups from a number	number of subsets and	manipulatives as
Communicate	subsets with 5 counters	(e.g., 15 - 5 - 5 - 5).	communicating the	needed.
understanding of set by	each).	Represent repeated	quotient as the number	
recognizing a group of		subtraction using	of equal subsets (e.g., a	
objects sharing an		equations (e.g., 15 - 5 -	set consisting of 15	
attribute. Communicate		5 - 5 = 0), and model	objects has three	
understanding of a		repeated subtraction	subsets, each	
subset by recognizing a		using concrete	containing 5 objects).	
subset as a set or group		manipulatives.		
of objects within a				
larger set that share an				
attribute.				

#### Initial Precursor and Distal Precursor Linkage Level Relationships to the Target

How is the Initial Precursor related to the Target? In order to understand division, students must learn to organize items into groups/sets based on a common characteristic such as size, color, shape, or texture. Students working at the Initial Precursor linkage level learn how to sort items by separating a group of items into two groups (e.g., music I like/music I don't like; red fidgets/black fidgets). As students gain comfort sorting items into sets, they are encouraged to communicate their thought process by identifying and naming the characteristic that determines the set (e.g., color, length). Activities that require students to engage actively with the items will foster understanding of set, subsets, and separateness.

How is the Distal Precursor related to the Target? As students' understanding of labeling and counting sets develops, they will begin working on adding and taking away items from a set. Educators provide opportunities for students to work on developing an understanding of partitioning by actively participating in one-to-one distribution of objects to person, objects to objects, and objects to available space (e.g., giving each person in the group two pencils; given four counters they can line up, then four more counters in front of or on top of the first set; given three chairs at a table, the student would place a cup on the table for each available chair) and taking equal shares away (subtracting) from each person, object, or space. Educators will provide opportunities for students to connect their understanding of subtraction (starting with the whole and taking away a part) to repeated subtraction. For example, if the educator has 12 balls, and each team gets 4 balls, how many teams will there be? By subtracting 4 from the whole repeatedly, we made 3 equal sets so there are 3 teams.



DLM Essential Element: M.EE.6.NS.2

### **Instructional Resources**

**Released Testlets** 

See the <u>Guide to Practice Activities and Released Testlets</u>.

Using Untested (UN) Nodes

See the document <u>Using Mini-Maps to Plan Instruction</u>.



**M.EE.6.NS.2** Apply the concept of fair share and equal shares to divide.