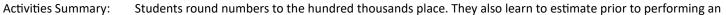
TEKS Cluster: Whole Number Operations

TEKS Subcluster: Estimation

Student Expectations: 4.2(D), 4.4(G) – Connected SEs: 4.4(H), 4.4(B), 4.4(C), 4.4(D)



operation. Most estimation activities are embedded in other subclusters.

Activity Title Student Expectations	Activity Topic	Туре			Delivery		
		new learning	intervention	practice	teacher-facilitated	small groups	stations
	Round Whole Numbers						
What Am I Closest to? 4.2(D)	Round Numbers Through the Hundred Thousands Place Students use informal rounding prior to learning formal rounding procedures.	✓			✓		

*Estimation – Multiplication of Whole Numbers subcluster									
Model Mania 4.4(B), 4.4(C), 4.4(D), 4.4(G), 4.4(H)	2-Digit by 2-Digit with Concrete Models, Arrays, Area Models, and Estimation Students estimate products, then use concrete models, arrays, and area models to solve problems.	✓	✓		✓				
What Are You Doing? 4.4(B), 4.4(C), 4.4(D), 4.4(G), 4.4(H)	2-Digit by 2-Digit with Area Models, Partial Products, and Standard Algorithm Students estimate products, then use area models, partial products, and the standard algorithm to solve problems.	~	✓		√				
Welcome to Elf Country 4.4(B), 4.4(C), 4.4(D), 4.4(G), 4.4(H)	3-Digit by 1-Digit with Area Models, Partial Products, and Standard Algorithm Students estimate products, then use area models, partial products, and the standard algorithm to solve problems.	~	✓		✓				
The Robot Assistant 4.4(B), 4.4(C), 4.4(D), 4.4(G), 4.4(H)	3-Digit by 1-Digit with Area Models, Partial Products, and Standard Algorithm Students estimate products, then use area models, partial products, and the standard algorithm to solve problems.		✓	✓		✓			
Rocky Road 4.4(B), 4.4(C), 4.4(D), 4.4(G), 4.4(H)	4-Digit by 1-Digit with Area Models, Partial Products, and Standard Algorithm Students estimate products, then use area models, partial products, and the standard algorithm to solve problems.	~	✓		✓				
Lucy Dynamic's Invention 4.4(B), 4.4(C), 4.4(D), 4.4(G), 4.4(H)	4-Digit by 1-Digit with Partial Products and Standard Algorithm Students estimate products, then use partial products and the standard algorithm to solve problems.		✓	✓		✓			

^{*}activities listed are connected with the Estimation subcluster and available in the Multiplication of Whole Numbers subcluster.