

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)

Activities Summary: Students round numbers to the hundred thousands place. They also learn to estimate prior to performing an operation. Most estimation activities are embedded in other subclusters.

Activity Title Student Expectations	Activity Topic	Type			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.