

Nifty Numbers

and connections with
B.E.S.T.

Mathematical Thinking and Reasoning Standards

MTR1: Actively participate in effortful learning both individually and collectively.

MTR2: Demonstrate understanding by representing problems in multiple ways.

MTR3: Complete tasks with mathematical fluency.

MTR4: Engage in discussions that reflect on the mathematical thinking of self and others.

MTR5: Use patterns and structure to help understand and connect mathematical concepts.

MTR6: Assess the reasonableness of solutions.

MTR7: Apply mathematics to real-world contexts.

All of the *Nifty Numbers* activities were designed to promote critical thinking skills. The parent participation booklet offers some suggested higher-order thinking questions for parents to ask their children as they are involved in the activity. As parents work with their children and enter into deeper mathematical conversations, they will be addressing the *Mathematical Thinking and Reasoning Standards* and promoting greater learning and understanding.

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Dominoes	
Beginning Level	K.NSO.1.1; K.NSO.1.2; K.NSO.1.4; K.NSO.2.1; K.NSO.3.1; K.NSO.3.2; K.AR.2.1; 1.NSO.1.2; 1.NSO.2.1; 1.NSO.2.2; 1.AR.2.3
Intermediate Level	2.NSO.2.1; 2.NSO.2.3; 2.AR.2.1; 2.AR.2.2
Advanced Level	4.NSO.2.1
Finding the Unknowns	
Beginning Level	K.NSO.1.1; K.NSO.1.2; K.NSO.2.1; K.NSO.3.1; K.NSO.3.2; K.AR.1.2; K.AR.1.3; 1.NSO.1.2; 1.NSO.2.1; 1.NSO.2.2; 1.AR.1.2; 1.AR.2.1; 1.AR.2.3
Intermediate Level	2.NSO.2.1; 2.AR.2.1; 2.AR.2.2; 2.AR.3.1; 2.AR.3.2; 3.NSO.2.2; 3.NSO.2.4
Advanced Level	4.NSO.2.1; 4.NSO.2.4
Growing Equations	
Beginning Level	K.NSO.1.1; K.NSO.1.2; K.NSO.2.1; K.NSO.3.1; K.NSO.3.2; K.AR.1.2; 1.NSO.1.2; 1.NSO.1.3; 1.NSO.2.1; 1.NSO.2.2; 1.NSO.2.4; 1.NSO.2.5; 1.AR.1.1
Intermediate Level	2.NSO.1.1; 2.NSO.2.1; 2.AR.1.1; 3.NSO.2.1; 3.NSO.2.2; 3.NSO.2.4
Advanced Level	4.NSO.2.1; 5.AR.2.2
Nimble Numbers	
Beginning Level	K.NSO.1.1; K.NSO.1.2; K.NSO.1.4; K.NSO.2.1; K.NSO.2.2
Intermediate Level	2.NSO.2.1; 2.NSO.2.3; 3.NSO.2.1
Advanced Level	4.NSO.2.1; 4.AR.3.1

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Pattern	
Beginning Level	Emphasis on MTR1, MTR4; MTR5
Intermediate Level	2.AR.3.1; 2.AR.3.2; 3.AR.3.1; 3.AR.3.3
Advanced Level	4.NSO.2.1; 4.NSO.2.7; 4.FR.2.2; 4.AR.3.2; 5.AR.3.1
Pattern Blocks	
Beginning Level	K.NSO.1.2; K.GR.1.1; K.GR.1.2; K.GR.1.5; 1.GR.1.1; 1.GR.1.3
Intermediate Level	3.FR.1.1; 3.FR.1.2; 3.FR.1.3; 3.FR.2.2
Advanced Level	4.FR.1.3; 4.FR.1.4; 4.FR.2.2; 5.FR.1.1
Rolling Numbers	
Beginning Level	K.NSO.1.1; K.NSO.1.2; K.NSO.2.1; 1.NSO.2.1; 1.NSO.2.2; 1.AR.2.1; 1.AR.2.3
Intermediate Level	2.NSO.1.3; 2.NSO.2.1; 2.NSO.2.3; 2.AR.2.2; 2.AR.3.1; 3.NSO.1.3; 3.NSO.2.1
Advanced Level	4.NSO.2.1; 5.AR.3.1 (working with variables)
Who Am I?	
Beginning Level	K.NSO.2.1; K.NSO.2.3; K.NSO.3.1; K.NSO.3.2; 1.NSO.1.1; 1.NSO.2.1; 1.NSO.2.2; 1.NSO.2.3; 1.AR.2.1
Intermediate Level	2.NSO.2.1; 2.AR.1.1; 2.AR.3.1; 2.AR.3.2; 3.NSO.2.2; 3.NSO.2.4; 3.AR.2.3; 3.AR.3.1; 3.AR.3.2
Advanced Level	4.NSO.2.1; 4.AR.3.1