Alison's Montessori
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COMMON CORE STANDARDS

CCS.M203.02: Table of Pythagoras - Task Cards (9 - 12)

Grade 4: Gain fluency in multiplication facts and interpret the structure of the multiplication table.

CCSS.MATH.CONTENT.4.OA.A.1 – Interpret multiplication as comparison

Standard Summary: Understand multiplication as comparing quantities.

Focus Area: Use the table to understand "times as many" situations.

Students will:

- Solve multiplication problems in context.
- Use the table to identify multiplication comparisons.

CCSS.MATH.CONTENT.4.OA.B.4 – Find factors and multiples

Standard Summary: Identify factor pairs and common multiples.

Focus Area: Explore factor relationships within the table.

Students will:

- Locate all factor pairs of a given number using the table.
- Circle or mark multiples visually.

CCSS.MATH.CONTENT.4.NBT.B.5 – Multiply whole numbers using the standard algorithm

Standard Summary: Multiply large numbers efficiently.

Focus Area: Use the table to build fluency before abstract calculations.

Students will:

- Use structured multiplication patterns to reinforce skill.
- Transition from concrete to abstract problem solving.

Grade 5: Analyze patterns and relationships across the multiplication table.

CCSS.MATH.CONTENT.5.OA.B.3 – Analyze patterns and relationships

Standard Summary: Use rules and structures in numerical patterns.

Focus Area: Discover symmetrical and functional patterns in the table.

Students will:

- Identify rows, columns, and diagonals with regular patterns.
- Predict missing products based on observed rules.

CCSS.MATH.CONTENT.5.NBT.B.5 – Fluently multiply multi-digit numbers

Standard Summary: Achieve fluency in multiplication.

Focus Area: Practice and confirm facts using visual references.

Students will:

- Apply known facts to larger problems.

- Develop speed and confidence through repetitive exploration.

Grade 6: Extend multiplication understanding to algebraic and functional thinking.

CCSS.MATH.CONTENT.6.EE.A.3 – Apply the properties of operations to generate equivalent expressions

Standard Summary: Use commutative, associative, and distributive properties.

Focus Area: Use the Table of Pythagoras to model equivalent expressions.

Students will:

- Visualize 6 × 4 as 4 × 6 and explain why they are equal.
- Decompose problems like 7 × 6 as (5 × 6) + (2 × 6) using the table.