



washington  
educational  
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# Washington State Math Fellows



## Protocol for Article: “Fundamentals of Learning” WestEd

### 1. The Three Shifts in Mathematics

**Focus-** strongly where the standards focus.

Focus deeply on the major work of each grade so that the students gain strong foundations; solid conceptual understanding, a high degree of procedural skill and fluency; and the ability to apply the math they know to solve problems inside and outside the math classroom.

**Coherence**

Standards are designed around coherent progressions from grade to grade. Principals and teachers carefully connect the learning across grades so that students can build new understanding onto foundations built in previous years. Each standard is not a new event, but an extension of previous learning.

**Rigor**

In major topics pursue conceptual understanding, procedural skill and fluency, and application with equal intensity. Teachers support students’ ability to access concepts from a number of perspectives so that students are able to see math as more than a set of mnemonics or discrete procedures. Teachers provide opportunities for students to apply math in context.

### 2. Read pages 4-10.

Use your assigned lens (focus, coherence or rigor) as you read these pages.

Prepare to answer this question:

*How do the “Fundamentals of Learning” support the shift?*