

*Common Core State Standards:  
Shifts for Students and Parents*

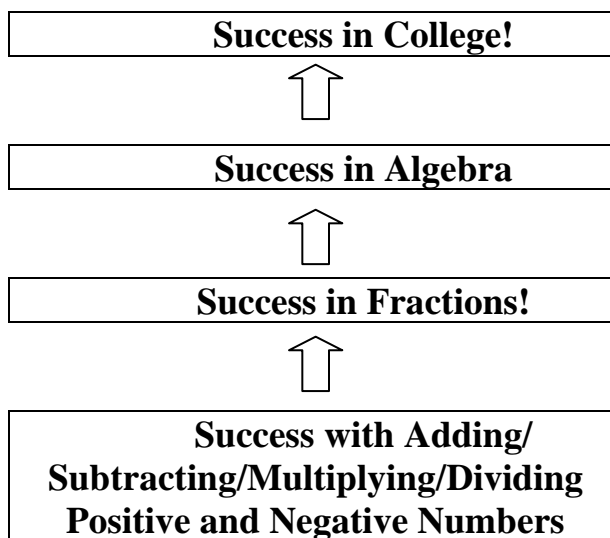
**Mathematics Shift 1:  
Focus: learn more about less**

| <b>Students must.....</b>  | <b>Parents can.....</b>  |
|--|--|
| <ul style="list-style-type: none"> <li>• Spend more time on <b>fewer concepts</b></li> </ul> | <ul style="list-style-type: none"> <li>• <b>Know what the priority work</b> is for your child for their grade level</li> </ul> |
|  | <ul style="list-style-type: none"> <li>• Spend time with your child on priority work</li> </ul>                                |
|  | <ul style="list-style-type: none"> <li>• Ask your child’s teacher about their progress on priority work</li> </ul>             |

**Mathematics Shift 2:  
Skills Across Grades**

| <b>Students must.....</b>  | <b>Parents can.....</b>  |
|--|--|
| <ul style="list-style-type: none"> <li>• <b>Keep building on learning</b> year after year</li> </ul> | <ul style="list-style-type: none"> <li>• Be aware of what your <b>child struggled with last year</b> and how that will affect learning this year</li> </ul>            |
|  | <ul style="list-style-type: none"> <li>• Advocate for your child and ensure that support is given for “<b>gap</b>” skills-negative numbers, fractions, etc.</li> </ul> |

**The National Mathematics Advisory Panel’s Final Report (2008)**



### Mathematics Shift 3: Speed and Accuracy

| Students must.....   | Parents can.....  |
|--|---|
| <ul style="list-style-type: none"> <li>• Spend time <b>practicing</b> – lots of problems on the same idea</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Push children</b> to know/memorize basic math facts</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>• Know all of the fluencies your child should have and prioritize learning of the ones they don't</li> </ul> |

### Key Fluencies

| Grade | Required Fluency   |
|-------|--|
| K     | Add/subtract within 5  |
| 1     | Add/subtract within 10   |
| 2     | Add/subtract within 20<br>Add/subtract within 100 (pencil and paper) |
| 3     | Multiply/divide within 100<br>Add/subtract within 1000               |
| 4     | Add/subtract within 1,000,000  |
| 5     | Multi-digit multiplication   |
| 6     | Multi-digit division<br>Multi-digit decimal operations               |
| 7     | Solve $px + q = r$ , $p(x + q) = r$                                  |
| 8     | Solve simple 2x2 systems by inspection                               |

**Mathematics Shift 4:  
Know it/Do it!**

| <b>Students must.....</b>  | <b>Parents can.....</b>  |
|--|--|
| <ul style="list-style-type: none"> <li>• <b>UNDERSTAND</b> why the math works.<br/><b>MAKE</b> the math work.</li> </ul> | <ul style="list-style-type: none"> <li>• Notice whether your child <b>REALLY</b> knows why the answer is what it is</li> </ul> |
| <ul style="list-style-type: none"> <li>• <b>TALK</b> about why the math works</li> </ul>                                 | <ul style="list-style-type: none"> <li>• Advocate for the <b>TIME</b> your child needs to learn key math</li> </ul>            |
| <ul style="list-style-type: none"> <li>• <b>PROVE</b> that they know why and how the math works</li> </ul>               | <ul style="list-style-type: none"> <li>• Provide <b>TIME</b> for your child to work hard with math at home</li> </ul>          |
|  | <ul style="list-style-type: none"> <li>• Get smarter in the math your child needs to know</li> </ul>                           |

**Mathematics Shift 5:  
Real World**

| <b>Students must.....</b>   | <b>Parents can.....</b>   |
|---|---|
| <ul style="list-style-type: none"> <li>• Apply math in <b>real world</b> situations</li> </ul>        | <ul style="list-style-type: none"> <li>• Ask your child to <b>DO</b> the math that comes up in your daily life</li> </ul> |
| <ul style="list-style-type: none"> <li>• Know <b>which math</b> to use for which situation</li> </ul> |   |

**Mathematics Shift 6:  
Think Fast/Solve Problems**

| <b>Students must.....</b>  | <b>Parents can.....</b>   |
|--|---|
| <ul style="list-style-type: none"> <li>• Be able to use <b>core math facts</b> FAST</li> </ul> | <ul style="list-style-type: none"> <li>• Notice which side of this coin is smart at and where he/she needs to <b>get smarter</b></li> </ul> |
| AND  | <ul style="list-style-type: none"> <li>• Make sure your child is <b>PRACTICING</b> the math facts he/she struggles with</li> </ul>          |
| <ul style="list-style-type: none"> <li>• Be able to apply math in the real world</li> </ul>    | <ul style="list-style-type: none"> <li>• Make sure your child is thinking about <b>MATH</b> in real life</li> </ul>                         |