

## ONE MODEL FOR DETERMINING INSTRUCTIONAL TIME NEEDED FOR INDIVIDUAL STUDENTS

Each student needs 90 minutes of daily instruction for a year’s worth of growth in one school year. A student who is behind needs 90 *additional* minutes of daily instruction (“catch-up growth”) for each year he or she is behind. Depending on how far behind the student is, additional time (“catch-up” growth) may need to be distributed over 2–3 years.

Procedure	Example
<b>To calculate the number of years a student is behind:</b>	<b>Tony scored in the 24th percentile at end of 1<sup>st</sup> grade</b>
<ul style="list-style-type: none"> <li>Subtract the student’s current percentile on state-designated assessment from 50 (if 50th percentile = proficient level on state-designated assessment)</li> </ul>	50th percentile – 24th percentile = 26 points
<ul style="list-style-type: none"> <li>Divide that number by 13 (the number of percentile points assumed in this model to represent one year’s growth)</li> </ul>	$26 \div 13 = 2$ years behind
<b>To calculate the total number of minutes of daily instruction for a student who is behind:</b>	
<ul style="list-style-type: none"> <li>Determine the number of minutes needed for <u>annual growth</u> for each year of instruction (90 minutes per year).</li> </ul>	Annual growth for 2 <sup>nd</sup> grade = 90 minutes daily Annual growth for 3 <sup>rd</sup> grade = 90 minutes daily
<ul style="list-style-type: none"> <li>Determine the number of minutes of “<u>catch-up</u>” <u>growth</u> by multiplying the number of years the student is behind by 90.</li> </ul>	“Catch-up” growth to make up for being 2 years behind ( $2 \times 90$ ) = 180 additional minutes daily
<ul style="list-style-type: none"> <li>Add the number of minutes for annual growth and “catch-up” growth to determine the total number of daily minutes.</li> </ul>	Total daily minutes needed to reach grade-level achievement by end of 3 <sup>rd</sup> grade ( $90 + 90 + 180$ ) = 360 minutes
<b>To calculate the number of minutes of daily instruction spread over more than one year:</b>	
<ul style="list-style-type: none"> <li>Divide the total daily minutes by the number of grades (until the target date, which typically is grade 3) to achieve grade-level status.</li> </ul>	<ul style="list-style-type: none"> <li><math>360 \div 2</math> (grades 2 and 3) = 180 minutes of daily instruction to reach grade-level achievement by end of 3<sup>rd</sup> grade</li> <li>Tony will need the standard 90 minutes of reading instruction plus an additional 90 minutes of instruction daily.</li> </ul>