

# Differentiating Mathematics: Grades 9–12

Student Situation	Student Needs	Targeted Support for Student	Tools
Student engages, participates, and keeps up with daily <i>Discovering Mathematics</i> or <i>IMP</i> lessons.	Regular instruction	None needed	None needed
Student struggles with some assignments in <i>Discovering Mathematics</i> or <i>IMP</i> lessons.	Extra feedback on work and thinking	Classroom question and answer, partner work, teacher checks in with student periodically to monitor in-class work	See notes in <i>Discovering Mathematics Teacher's Editions</i> : <ul style="list-style-type: none"> <li>• Sharing Ideas</li> <li>• Guiding Investigations</li> </ul> See notes in <i>IMP Teacher's Editions</i> : "Look for Key Questions"
Student is not bringing enough learning from earlier <i>Discovering Mathematics</i> or <i>IMP</i> lessons to successfully engage in current lessons.	Extra support with regular program	Homework help, targeted homework assignments, tutoring, extended class time, attention beyond regular class time	<i>More Practice Your Skills Teaching and Worksheet Masters</i> English and Spanish <i>Condensed Lessons</i> and <i>The Parent Guide</i> at: <ul style="list-style-type: none"> <li>• <a href="http://www.keymath.com/DA">www.keymath.com/DA</a></li> <li>• <a href="http://www.keymath.com/DG">www.keymath.com/DG</a></li> <li>• <a href="http://www.keymath.com/DAA">www.keymath.com/DAA</a></li> </ul> <i>IMP</i> : Supplemental Problems
Other factors (e.g., lack of language proficiency, difficulty with fine motor skills) impact student's ability to engage in <i>Discovering Mathematics</i> or <i>IMP</i> lessons.	Special adaptations to access curriculum	Larger print, modified format, language support, partner or group support, etc.	See notes in <i>Teacher's Editions Spanish Glossaries</i> at: <ul style="list-style-type: none"> <li>• <a href="http://www.keymath.com/DA">www.keymath.com/DA</a></li> <li>• <a href="http://www.keymath.com/DG">www.keymath.com/DG</a></li> <li>• <a href="http://www.keymath.com/DAA">www.keymath.com/DAA</a></li> </ul> <i>Accessibility Strategies</i> (EDC)
Student's misconceptions about current mathematics topics hinder engagement in <i>Discovering Mathematics</i> or <i>IMP</i> lessons.	In-depth concentration on troublesome concepts	Additional instruction that supports conceptual understanding of basics, extended class time, small group work, tutoring, targeted assignments	Suggest diagnostic testing for possible placement in mathematics intervention skills block: <a href="#">Mathematics Navigator modules</a> or <a href="#">ALEKS online program</a>
Student has misconceptions about many mathematics topics that significantly hinder success in current core program.	Intensive intervention	Intensive intervention period for increased time and intensity in addition to regular class, including summer school or individual tutoring	Suggest diagnostic testing for possible placement in mathematics intervention skills block: <a href="#">Mathematics Navigator modules</a> or <a href="#">ALEKS online program</a>

# Differentiating Mathematics: Grades 9–12

Student Situation	Student Needs	Targeted Support for Student	Tools
Student learns new concepts and skills very quickly.	Challenges to extend and enrich learning	Targeted homework assignments, projects, enrichment activities	Student Web Links at: <ul style="list-style-type: none"> <li>• <a href="http://www.keymath.com/DA">www.keymath.com/DA</a></li> <li>• <a href="http://www.keymath.com/DG">www.keymath.com/DG</a></li> <li>• <a href="http://www.keymath.com/DAA">www.keymath.com/DAA</a></li> </ul> <i>IMP</i> : Supplemental Problems
Student has in-depth understanding of some/much of the mathematics in <i>Discovering Mathematics</i> or <i>IMP</i> lessons.	Challenges to extend and enrich learning	Pretest to identify needs, targeted assignments, projects, enrichment activities, additional topics	Student Web Links at: <ul style="list-style-type: none"> <li>• <a href="http://www.keymath.com/DA">www.keymath.com/DA</a></li> <li>• <a href="http://www.keymath.com/DG">www.keymath.com/DG</a></li> <li>• <a href="http://www.keymath.com/DAA">www.keymath.com/DAA</a></li> </ul> <i>IMP</i> : Supplemental Problems
Student has in-depth mathematical understanding of both skills and concepts presented in current <i>Discovering Mathematics</i> or <i>IMP</i> level.	Challenges to extend and enrich learning	Projects, additional topics, greater depth in study of topics, individual in-depth evaluation using multiple sources of evidence over time to consider acceleration	Student Web Links at: <ul style="list-style-type: none"> <li>• <a href="http://www.keymath.com/DA">www.keymath.com/DA</a></li> <li>• <a href="http://www.keymath.com/DG">www.keymath.com/DG</a></li> <li>• <a href="http://www.keymath.com/DAA">www.keymath.com/DAA</a></li> </ul> <i>IMP</i> : Additional Problems of the Week