Look Fors in Grades 9–12 Mathematics

Look for	Description
Program and Lesson Components	Use of *Teacher's Guides* (*Discovering Algebra, Discovering Geometry, Discovering Advanced Algebra,* IMP 1, 2, 3), student books, DPS Time Frames and Instructional Planning Guides to implement lessons incorporating: • **Introduction:** Teacher sets context for investigation, poses problem, and ensures that students understand terminology. • **Investigation/Exploration:** Students work on investigation (or example) individually, in pairs, or in small groups. Teacher observes, assesses, encourages, and plans Sharing and summarizing the mathematics. • **Sharing and Closing:** Selected students or groups share findings with class. Teacher asks questions and elaborates on students' ideas (as needed) to bring out the mathematics of the lesson. • **Exercises:** Students might begin work on homework, either in groups or individually. Assignments may be differentiated to meet student needs and may include projects.
Classroom Environment	**Arrangement** • Designed for both large and small group instruction **Displays** • Current unit math word wall with visual cues • Current student work • Current unit Big ideas **Tools** • Rulers, protractors, grid paper, and manipulatives readily accessible to students • Calculators available and system in place for use
Program Assessment Opportunities	• Written Assessments—quizzes, tests • Assessing Progress—observational assessment, group work, class discussions, student presentations, homework discussions, homework • Assessing What You've Learned—notebooks, journals, projects, portfolios