



## Providing Feedback on Review & Preview

CPM considers Review & Preview as a formative assessment, and an opportunity for the students to practice and develop mathematical ideas. Review & Preview can be checked during or outside of class. Both teachers and students should keep their worked out Review & Preview solutions as a resource. Students need prompt feedback on their solutions, and an opportunity to discuss and revise their work. Although giving credit for Review & Preview may be a way to motivate students to do the practice, managing it should not be cumbersome or *time consuming*. Teachers, who collect the practice problems on a daily basis, often do not have the time to get it checked every night. As the teacher workload piles up, student misunderstandings may go unnoticed for long periods of time.

Veteran teachers have devised the following ideas for handling Review & Preview:

- Collect and **quickly sort** through assignments and score as 3 (complete), 2 (attempted), or 1 (started). Some teachers do this during class by circulating as the students start working on classwork in their teams.
- Collect the Review & Preview and **grade one problem carefully**. Check the entire assignment for completeness. If the assignment is worth 10 points, five points could be for the problem that is graded carefully; the other five points represent the completeness of the rest of the assignment.
- Give students a **pool of Review & Preview points** at the beginning of the semester and subtract points for incompleteness.
- Have students compare their Review & Preview solutions in their team **at the end of the period**. This way you and the students will be less tempted to "spend a little more class time" doing last night's assignment. Mastery comes over time. The students' time will be much better spent working on new problems. There will be more of these questions to practice later.
- **Provide your worked out solutions** in class, either on a page for each team or on the projector so that students can check their work themselves. Students can then revise their solutions in their teams as needed. If questions still remain, teachers can work with a team as they circulate.
- As they begin the day's work, have students keep their Review & Preview out on their desk. Circulate and **stamp** the students' Review & Preview and assignment sheet while they are checking their solutions. Then collect the assignment sheet on test days or at the end of the week.
- Use an **assignment sheet** with details of the week's assignments. Stamp the Review & Preview assignment sheet on a daily basis and collect it on team

assessment days or at the end of each week.

- Give **Review & Preview quizzes** on a weekly basis. Pick one or two problems from the Review & Preview and have students copy their own solutions for those problems. Review & Preview quizzes should be done so students have an opportunity to discover and revise their answers. Review & Preview quizzes, as opposed to other assessments, should be timed so students only have time to copy down their solutions, not start from scratch. Do not allow books out during the quiz.
- Give every student a **red (or green or purple) pen** to correct his or her Review & Preview. Make your worked out solution keys available. Allow students 5 minutes to redo incorrect problems.
- Have students share their solutions in their teams. If the team cannot come to a consensus on a solution, the resource manager can check your worked out solutions, check with another team, or check with you.
- Assign each team one of the Review & Preview problems. Give each team a small dry erase board on which they can write their worked out solution. Then use a Hosted Gallery Walk or a Whip-Around to share solutions with the whole class.
- Write the problem numbers on the board. As students enter class, they can add tally marks to those problems for which they have questions. The problems with the most tally marks are reviewed as a whole class.
- Have the students correct their work at home and come with quick questions the next day. Worked out solutions can be posted on your website or in your learning management system.

Whatever strategy you use, students should be able to quickly check the solutions to the problems on which they have questions. They also have their team members handy to answer additional questions they might have. You can then handle only the questions no one else could resolve as you circulate or at the end of the period.