TEALS Program

1 Lesson 2.10 — Finding & Fixing Errors

1.1 Overview

1.1.1 Objectives — *Students will be able to...*

- **Find** errors in their returned homework assignments.
- **Correct** their code

1.1.2 Assessments — *Students will...*

- **Re-submit** all homework assignments with corrected answers.

1.1.3 Homework — *Students will...*

- **Study** for the test by:
    - **Reviewing** all the blue pages at the end of Chapter 2
    - **Re-reading** sections as needed
- **Submit** 5 questions for review in class tomorrow using electronic survey

1.2 Materials & Prep

- **Any student homework assignments** that you have not yet returned
- **Student self-help system** (such as C2B4 or student pairing)
- **Electronic survey** for student review requests

When you grade homework assignments, it will be most useful to these lessons if you only mark an answer incorrect or correct. ELL classrooms are the exception to this rule—students will be having a hard enough time just reading the material; you can speed along their processing by correcting one example, then having them look for similar errors with that example.

The homework tonight asks students to submit 5 questions for review. Create an **electronic survey** for students to complete with 6 text fields, one for name, and 5 for questions they have about Ch. 2 content. Set a time-deadline (e.g. 10pm) by which time students must have submitted 5 questions from Ch.2 that they would like to see reviewed in tomorrow's class. If students do not have questions, stipulate that they still have to submit something to receive credit, even if it is only questions they think other students may have.

1.3 Pacing Guide

Section	Total Time
Bell-work and attendance	5min
Introduction and homework distribution	5min
Student work	35min
Students trade work, check, and submit	10min

1.4   Procedure

Today we continue reinforcing concepts and applying the tools, procedures, and code that were introduced last week. Students will have the opportunity to correct any incorrect homework assignments. If students did not have time to finish the programming projects from yesterday, you may allow them time to work on those projects today.

This is a good day to loosen up the vibe in the classroom a bit. Try playing music softly in the background to encourage students to relax and focus on spotting errors. Try to avoid loud, rhythmic music, and avoid the pitfall of allowing students to select the station!

1.4.1   Bell-work and Attendance [5 minutes]

1.4.2   Introduction and Homework Distribution [5 minutes]

1. Return student homework packets, or have students place their returned homeworks in a pile on their desk.

2. Explain to students that they have the opportunity to get full credit on their homework grades by correcting them now, in class. Ask students for suggestions/ideas on how to make sure they don't miss any errors.

   a. By now students should be used to relying on their error checklist/algorithm.

   b. Hopefully, students suggest using the 4 Commandments of Scope, creating pseudocode and/or structure diagrams to clarify thinking on program structure, and checking their notes and the text book.

1.4.3   Student Work [35 minutes]

Have students work individually to correct their homework grades.

- Offer time checks for students so they stay on task.

- If students have not finished their programming project from yesterday's class, allow them to do so today.

1.4.4   Students trade work, check, and turn in [10 minutes]

At the end of class, have students trade their homework assignments to evaluate each other's corrections before submission.

1.5   Accommodation and Differentiation

If you have students who are speeding through this lesson, you should encourage them to tackle programming project 2 & 3 in the text book.

If you were unable to finish grading student notebooks yesterday, finish them today while students are working. Return notebooks by the end of class so students may use them to study for the exam.

1.6   Forum discussion

Lesson 2.10 Finding & Fixing Errors (TEALS Discourse account required)