Error Analysis



- Includes determining what errors students are making, why, and what we can do to remedy them.
- Informs instruction.
- Determines next steps for supporting individual students.





- Analyze work samples.
- Conduct diagnostic observations or interviews.







Slips: Errors **not** indicative of misconceptions; often remedied with better organization and self-monitoring.



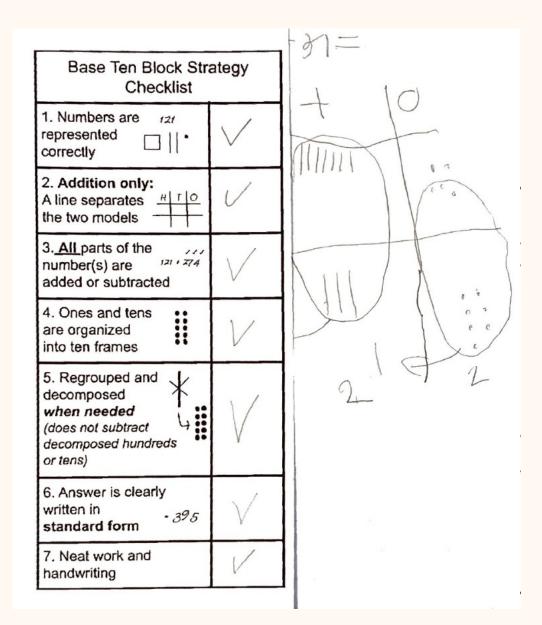
Bugs: Errors that are indicative of misconceptions.

Look for error patterns.





- Teach students to organize their work, write neatly, and check for mistakes.
- Introduce self-monitoring checklists.





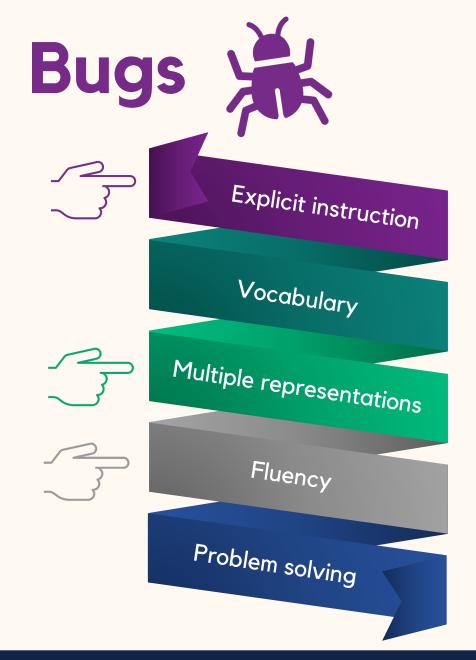


- Teach students to organize their work, write neatly, and check for mistakes.
- Introduce self-monitoring checklists.

Turn in this checklist with your assignment.	Name Date		
 My digits are written in place-value columns. Others can read my numerals. Sometimes I was stuck. I checked my answers. Describe a situation in which this computation could be used. Comments	Y Y Y	? ? ?	N N N

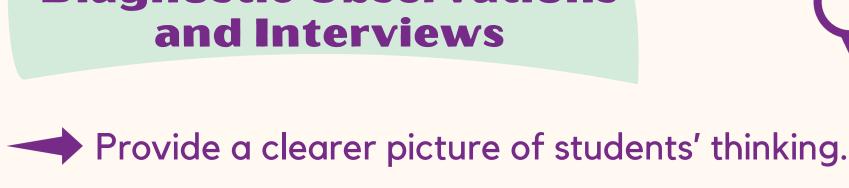
Ashlock (2010)





- Step-by-step modeling, guided practice, and timely feedback.
- Hands-on manipulatives and visuals.
- Brief, daily fluency practice (once the student is proficient with the skill).

Diagnostic Observations and Interviews







- Accept students' responses without judgment.
- Keep responses neutral.
- Ask probing questions about incorrect and correct answers.



Diagnostic Observations and Interviews

Use a simple script.

Read the problem, please.

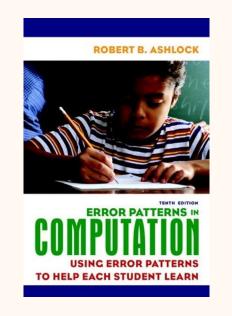
What is the question asking you to do?

How are you going to find the answer?

Do the work and tell me about your thinking as you work.

Write down your answer.







Diagnostic Observations and Interviews

How did you get your answer? I may have missed something.

If you had to teach someone else to solve this problem, what would you tell them?

This time, I'll hold the pencil. You act as the teacher and tell me what to do.

Ashlock (2010)

