Title: Analyzing Exam Errors and Making Corrections

Class: Any Gateway Math Class. (Note: I believe this activity would be most valuable in classes where the tutor is directly connected to the class and teacher. I think this activity would be difficult for a tutor who does not know the teacher/student well.)

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Objective: To encourage a student to look for patterns in their test errors. To foster an awareness of the type of test-taker the student is so that he/she can develop strategies to perform better in the future.

Activity: To carefully analyze, correct, and discuss test errors using a form provided by the teacher.

Instructions to tutor: A student will come to you after attempting to analyze and categorize test errors. He/she will also have attempted to re-work the problems missed on the exam. Your first task is to carefully go through the "corrections." Don't be surprised if the student makes mistakes again on the second attempt. Your second task is to go over the categories of errors with the student. It is very common for students to state that most of their errors are "careless." However, most often there is something deeper occurring to undermine the student, especially if he/she makes another mistake on the second attempt. Overall, your job is to encourage the student to step back from the small details of the exam and look at the "big picture." You want to ask them "In general, how can you be better prepared for the next exam? What particular steps can you take well before the day of the exam? What can you do during the exam to make it the best and most accurate assessment of your skills and knowledge?" These are big questions, and the student will need your help in finding the answers. Of course, you want to help the student understand the particular information, but you also want to teach them *how to be a better student in general*. Some common advice for the student: Slow down. Read everything. Get a good night's sleep. Do more homework so that things come more naturally to you on an exam. When doing homework, develop a process that you can rely on during times of stress (such as an exam!), etc.

Keywords/Tags: after math, test corrections, error analysis, test taking.

Aftermath for Exam ____

Student Directions:

Carefully go over Exam #___.

For each problem that you missed, classify the type of error you made (see pg 2) and complete the table below.

Then on a separate sheet of paper, correctly re-work every missed problem.

Make an appointment with your Gateway tutor to check that your test corrections are correct.

In the same appointment, discuss with your tutor the categories of errors.

Submit the completed table and form, the exam, the re-worked problems. Make sure that your tutor signs and completes his/her part of the form to verify that your corrections have been checked and that you have discussed the categories of errors.

Error Type	Question #s	Total points missed for the type of error
1. Direction Errors		
2. Careless Errors		
3. Concept Errors		
4. Application Errors		
5. Test-taking Errors		
type a		
type b		
type c		
type d		
type e		
type f		
type g		
6. Study Errors		

Six Types of Test-Taking Errors

Type	Suggestion	
. Misread direction error	GG	
These errors occur when you skip	To avoid this type of error, read <u>all</u> the directions, underlining key words.	
irections or misunderstand directions		
. <u>Careless error</u>	To avoid this type of error, watch carefully for simple mistakes as you work	
Aistakes made which can be caught	each problem. After finishing the exam, if you have time, review each	
utomatically upon reviewing the test.	problem step by step, checking that you have not made careless errors.	
. <u>Concept errors</u>		
Aistakes made when you do not	To avoid this type of error in the future, you must go back to your textbook	
nderstand the properties or principles	or notes and learn why you missed the problems	
equired to work the problem.		
. Application errors		
Aistakes that you make when you know	To reduce this type of error, you must learn to predict the type of application	
he concept but cannot apply it to the	problems that will be on the test.	
roblem.		
. Test-taking errors		
Mistakes that you make because of the		
pecific way you take tests, such as:	If you find that you miss more questions in a contain part of the test	
(a) Missing more questions in the 1 st or	If you find that you miss more questions in a certain part of the test consistently, use your remaining test time to review that part of the test first.	
last third of the test.	consistently, use your remaining test time to review that part of the test first.	
	To avoid this mistake, <u>review the last step of a test problem first</u> , before	
(b) Not completing a problem to its last	doing an in-depth test review.	
step.	doing an in dop in toot 10 115 111	
	If you have this tendency, then write on your test "Don't change answers!"	
(c) Changing test answers from the	Only change answers if you have double-checked and can prove to yourself	
correct ones to incorrect ones.	that the changed answer is correct.	
(d) Catting atuals on one problem and		
(d) Getting stuck on one problem and spending too much time.	Set a time limit for each problem before moving to the next problem.	
spending too much time.		
(e) Rushing through the easiest part of		
the test and making careless errors.	If you do this often, after finishing the test review the easy problems first,	
the test and making eareress errors.	then review the harder problems.	
(f) Miscopying an answer from your		
scratch work to the test.	To avoid this, systematically compare your last problem step on scratch	
	paper with the answer on the test. Work with your scratch paper placed on	
	top of the test paper, not off to the side.	
(g) Leaving answers blank.	White design come information and the transition of the state of the s	
	Write down some information or try at least to do the first step.	
. Study errors Aistolyee that account when you study the		
Aistakes that occur when you study the	To avoid these errors in the future, take some time to track down why the	
vrong type of material or do not spend nough time studying pertinent material.	errors occurred so that you can study more effectively the next time.	
nough time studying definient material.		

For tutor use: Please check the appropriate box. Student has completed worksheet but may need further assistance. Recommend a follow-up with instructor. Student has mastered the material in this exam and understands/recognizes a pattern.
Tutor Name:
Tutor Signature: