How To: Promote Acquisition of Math Facts or Spelling Words Using Cover-Copy-Compare

DESCRIPTION: In this intervention to promote acquisition of spelling words or math facts, the student is given a sheet with a set of target spelling words or math facts and answers. The student looks at each original spelling word or math-fact (equation and answer), covers the spelling word or math fact briefly and copies the item from memory, then compares the copied spelling word or math fact and answer to the original correct model (Skinner, McLaughlin & Logan, 1997).

GROUP SIZE: Whole class, small group, individual student

TIME: Variable up to 15 minutes per session

MATERIALS:

- *Worksheet: Spelling or Math Cover-Copy-Compare* (attached)

- *Log: Mastered Spelling Words or Math-Facts* (attached)

INTERVENTION STEPS: Here are the steps of Cover-Copy-Compare for spelling words or math facts:

1. *[Teacher] Create a Cover-Copy-Compare Spelling List or Math-Fact Sheet.* The teacher selects up to 10 spelling words/math facts for the student to work on during the session and writes those items as correct models (math facts are copied with both equation and answer) into the left column ('Spelling Words' or 'Math Facts') of the appropriate *Cover-Copy-Compare Worksheet* (attached). The teacher then pre-folds the sheet using as a guide the vertical dashed line ('fold line') bisecting the left side of the student worksheet.

2. *[Student] Use the Cover-Copy-Compare Procedures.* During the Cover-Copy-Compare intervention, the student follows these self-directed steps for each spelling word or math fact:

     - Look at the spelling word or math fact with answer that appears in the left column of the sheet.

     - Fold the left side of the page over at the pre-folded vertical crease to hide the correct model ('Cover').

     - Copy the spelling word or math fact and answer from memory, writing it in the first response blank under the 'Student Response' section of the Cover-Copy-Compare worksheet ('Copy').

     - Uncover the correct model and compare it to the student response ('Compare'). If the student has written the spelling word/math fact and answer CORRECTLY, the student moves to the next item on the list and repeats these procedures. If the student has written the spelling word/math fact and answer INCORRECTLY, the student draws a line through the incorrect response, studies the correct model again, covers the model, copies the model again from memory into the second response blank under the 'Student Response' section of the sheet, and again checks the correctness of the copied item..

     - Continue until all spelling words or math facts on the sheet have been copied and checked against the correct models.

3. *[Teacher] Log: Items Mastered by Student.* The teacher should formulate an objective standard for judging that the student using Cover-Copy-Compare has 'mastered' an individual spelling word or math fact (e.g., when the student is able to copy a spelling word or math fact plus answer from memory without error on three successive occasions). The teacher can then apply this standard for mastery to identify and log items mastered in each session, using the appropriate *Log Sheet* (attached).

References

Skinner, C. H., McLaughlin, T. F., & Logan, P. (1997). Cover, copy, and compare: A self-managed academic intervention effective across skills, students, and settings. *Journal of Behavioral Education, 7,* 295-306.

Worksheet: Cover-Copy-Compare Student: _____ Date: _____

Math Facts		Student Response
1.		1a.
		1b.
2.		2a.
		2b.
3.		3a.
		3b.
4.		4a.
		4b.
5.		5a.
		5b.
6.		6a.
		6b.
7.		7a.
		7b.
8.		8a.
		8b.
9.		9a.
		9b.
10.		10a.
		10b.

Fold Line

Log: Mastered Math Facts

Student: _____ School Yr: _____ Classroom/Course: _____

Math-Facts Cumulative Mastery Log: During the intervention, log each mastered math fact below with date of mastery.

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

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Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Math Fact: _____ Date: ___/___/___   Math Fact: _____ Date: ___/___/___

Worksheet: Cover-Copy-Compare Student: _____ Date: _____

Spelling Words	Student Response
1.	1a.
	1b.
2.	2a.
	2b.
3.	3a.
	3b.
4.	4a.
	4b.
5.	5a.
	5b.
6.	6a.
	6b.
7.	7a.
	7b.
8.	8a.
	8b.
9.	9a.
	9b.
10.	10a.
	10b.

Fold Line

Log: Mastered Spelling Words

Student: _____ School Yr: _____ Classroom/Course: _____

Spelling Cumulative Mastery Log: During the spelling intervention, log each mastered word below with date of mastery.

Word 1: _____ Date: ___/___/___   Word 21: _____ Date: ___/___/___

Word 2: _____ Date: ___/___/___   Word 22: _____ Date: ___/___/___

Word 3: _____ Date: ___/___/___   Word 23: _____ Date: ___/___/___

Word 4: _____ Date: ___/___/___   Word 24: _____ Date: ___/___/___

Word 5: _____ Date: ___/___/___   Word 25: _____ Date: ___/___/___

Word 6: _____ Date: ___/___/___   Word 26: _____ Date: ___/___/___

Word 7: _____ Date: ___/___/___   Word 27: _____ Date: ___/___/___

Word 8: _____ Date: ___/___/___   Word 28: _____ Date: ___/___/___

Word 9: _____ Date: ___/___/___   Word 29: _____ Date: ___/___/___

Word 10: _____ Date: ___/___/___   Word 30: _____ Date: ___/___/___

Word 11: _____ Date: ___/___/___   Word 31: _____ Date: ___/___/___

Word 12: _____ Date: ___/___/___   Word 32: _____ Date: ___/___/___

Word 13: _____ Date: ___/___/___   Word 33: _____ Date: ___/___/___

Word 14: _____ Date: ___/___/___   Word 34: _____ Date: ___/___/___

Word 15: _____ Date: ___/___/___   Word 35: _____ Date: ___/___/___

Word 16: _____ Date: ___/___/___   Word 36: _____ Date: ___/___/___

Word 17: _____ Date: ___/___/___   Word 37: _____ Date: ___/___/___

Word 18: _____ Date: ___/___/___   Word 38: _____ Date: ___/___/___

Word 19: _____ Date: ___/___/___   Word 39: _____ Date: ___/___/___

Word 20: _____ Date: ___/___/___   Word 40: _____ Date: ___/___/___