Paper Clip Keeper

Students build and improve a holder from used paper.

E.K.10.3 "Create a product from reused materials that will meet a human need (e.g., pencil holder, musical instrument, bird feeder). Use an engineering design process to define the problem, design, construct, evaluate, and improve the product.*"

NAME _____ DATE _____

Teacher: this page is run aloud. The script and answers are on the guide page.

1 MAKE A PLAN

a

hold	**spill**	**lose**

b

rip	**fold**	**toss**

2 TEST AND CHANGE

TEST

CHANGE

RETEST

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HOW TO RUN THIS PAGE

Give each student a sheet of paper used on one side and three paper clips. Read the choices aloud, then have students plan, build, test, and improve a paper clip holder. Watch students make and test their holders as they record what happened.

Students never read directions on this sheet. Read each part's script aloud, then each prompt, giving think time before students mark.

PART 1 · MAKE A PLAN

SAY "Paper clips can scatter on our desks. Listen to each question and circle one word."

ROW	SAY	STUDENTS CIRCLE
a	What do we need our paper clip keeper to do? Circle one word.	**hold**
b	How can you make a holder from used paper? Circle one word.	**fold**

PART 2 · TEST AND CHANGE

SAY "Fold your used paper into a holder, put three paper clips inside, and lift it. Write Y in TEST if all three clips stay in, or N if any fall out. Choose a change and tell me why: fold an edge higher and write F in CHANGE, or fold the bottom flatter and write B in CHANGE. Make your change, test again with three clips, and write Y in RETEST if all stay in, or N if any fall out."

- Box 1 (beside TEST): **Y if all three clips stayed in during the first test; N if any fell out.**
- Box 2 (beside CHANGE): **F if the student folded an edge higher; B if the student folded the bottom flatter.**
- Box 3 (beside RETEST): **Y if all three clips stayed in after the change; N if any fell out.**

WHAT TO ACCEPT

The circled words are hold and fold. Accept test marks that match what happened, including N on the retest; check that the student made the recorded change and tested again.