My Name ____________________________________________________________

My Partner’s Name _________________________________________________

1 What is the problem?
State the problem in your own words. Use complete sentences.

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Design Notebook for A Helping Hand by Sharon A. Brusic (2017)
2 Brainstorm solutions.
Sketch some possible solutions to this problem.
Label the materials you would likely use.

IDEA #1

IDEA #2
Share your ideas with your partner. Compare your ideas. Decide which idea you think will work best. You might combine ideas from both for a new idea. What did you decide? Check one of these answers.

☐ My idea #1
☐ My idea #2
☐ My partner’s idea #1
☐ My partner’s idea #2
☐ A combined idea

*(if you choose a combined idea, draw the new idea in the box below or describe it with words.)*
Create the solution you think is best.

Check off the materials you used to build your solution. Write in materials that you used which are not listed.

- Recycled materials
- Construction paper
- Cardstock
- Cardboard
- Paper clips
- Brass paper fasteners
- Masking tape
- Clear tape
- Glue
- String or yarn
- Rubber bands

- Craft sticks
- Scissors
- Ruler
- Crayons
- Markers
- Colored pencils

How well did you and your partner work together to solve this problem? Check off which statement best describes your team work. Then explain your answer in the space provided.

- We worked well together.
- I did more work than my partner.
- It was hard to work together.
- I did most of the work myself.
Test your solution. Test your “helping hand” device. Keep making changes until you have the best solution. Be determined to make the best invention possible.

Answer these questions once you have your solution working well.

Does it....

1. Hold at least 5 playing cards? YES  NO
2. Allow user to place cards in it easily? YES  NO
3. Allow user to remove cards easily? YES  NO
4. Make it easy to hold cards without others seeing them? YES  NO
5. Damage cards in any way? YES  NO
6. Use only allowed materials? YES  NO
7. Work well every time you try it? YES  NO

Evaluate your solution.

Circle the picture that best explains what you think.

- How do you feel about your invention? 😞 😐 😊
- How useful is your invention? 😞 😐 😊
Use complete sentences to answer these questions about your solution.

What is the best feature of your helping hand? Explain why you think so.
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If you had more time or materials, what would you do to make your solution better?
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What was the most difficult part of this problem?
______________________________________________________________________________
______________________________________________________________________________
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