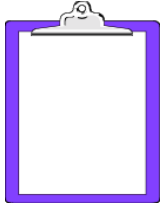


# Paper Airplane Activity

## Task Card Practice – (teacher)



**1**

**OBJECTIVE:** To introduce students to the task card concept of following a set of step-by-step instructions. This same concept will be used frequently throughout the students' mission at the learning center.

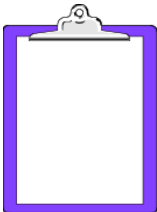
**PROCEDURE:** 1. Divide students into pairs. In each pair assign one student to be Mission Control (MC) and the other to be Space Station (SS).

2. Give the MC student the MC task cards and one copy of the airplane pattern, a pencil and a post-it note.

*GO TO THE NEXT TASK CARD*

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## Task Card Practice Continued – (teacher)



**2**

3. Give the SS student the SS task cards and one copy of the airplane pattern, a pencil and a post-it note.
4. Students should sit back-to-back and may need access to a desk or flat surface.

**MATERIALS:**

- 2 paper airplane patterns
- 1 set MC task cards, 1 set SS task cards
- 2 chairs (set back-to-back)
- 2 pencils
- 2 post-it notes

## Task Card

MC



1

1. Sit with your back to your partner.
2. You should not be able to see your partner (SS) working on the pattern.
3. You will be giving most of the instructions.
4. Your partner will say "**check**" when the directions have been received and completed.
5. On a piece of paper, record your prediction for how long it will take your team to construct a paper airplane.
6. When your partner is ready to begin, start with task card #2.

## Task Card

SS



1

1. Sit with your back to your partner.
2. You should not be able to see your partner (MC) working on the pattern.
3. You will be receiving instructions from your MC partner.
4. When an instruction has been understood and completed, say "**check.**"
5. On a piece of paper record your prediction for how long it will take your team to construct a paper airplane.
6. Tell your partner you are ready to begin.



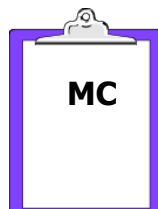
## Task Card



2

1. Lay the pattern with side "A" facing up. "A" should be placed at the 12:00 position. "A" should remain up and in this position for the construction.
2. Fold up along line 3. It will serve as a center guide. Open the paper.
3. Fold up along lines 1 and 2. Edges A and B should touch line 4.

*GO TO THE NEXT TASK CARD*



## Task Card



3

4. Fold up along line 5. Bring edge C in to touch line 3.
5. Fold up along line 6. Bring edge D in to touch line 3.
6. Fold up along line 8. Bring edge E in to touch line 3.

*GO TO THE NEXT TASK CARD*

## Task Card

MC



4

7. Fold up along line 9. Bring edge F in to touch line 3.
8. Turn the paper over so two \*'s face up.
9. Fold along line 3 so \*'s touch.
10. Open the plane's wings so \*'s touch and lines 8 and 9 on the bottom are visible.

**Congratulations! You have constructed the plane -- record the time.**



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## Task Card

MC



5

DISCUSS THE FOLLOWING:

1. What was the difference between the predicted time and actual time? How well did you predict? Explain your accuracy.
2. Discuss difficulties/problems and your solutions.
3. Suggest how this activity can be improved.
4. Clean up your stations and return all supplies.