

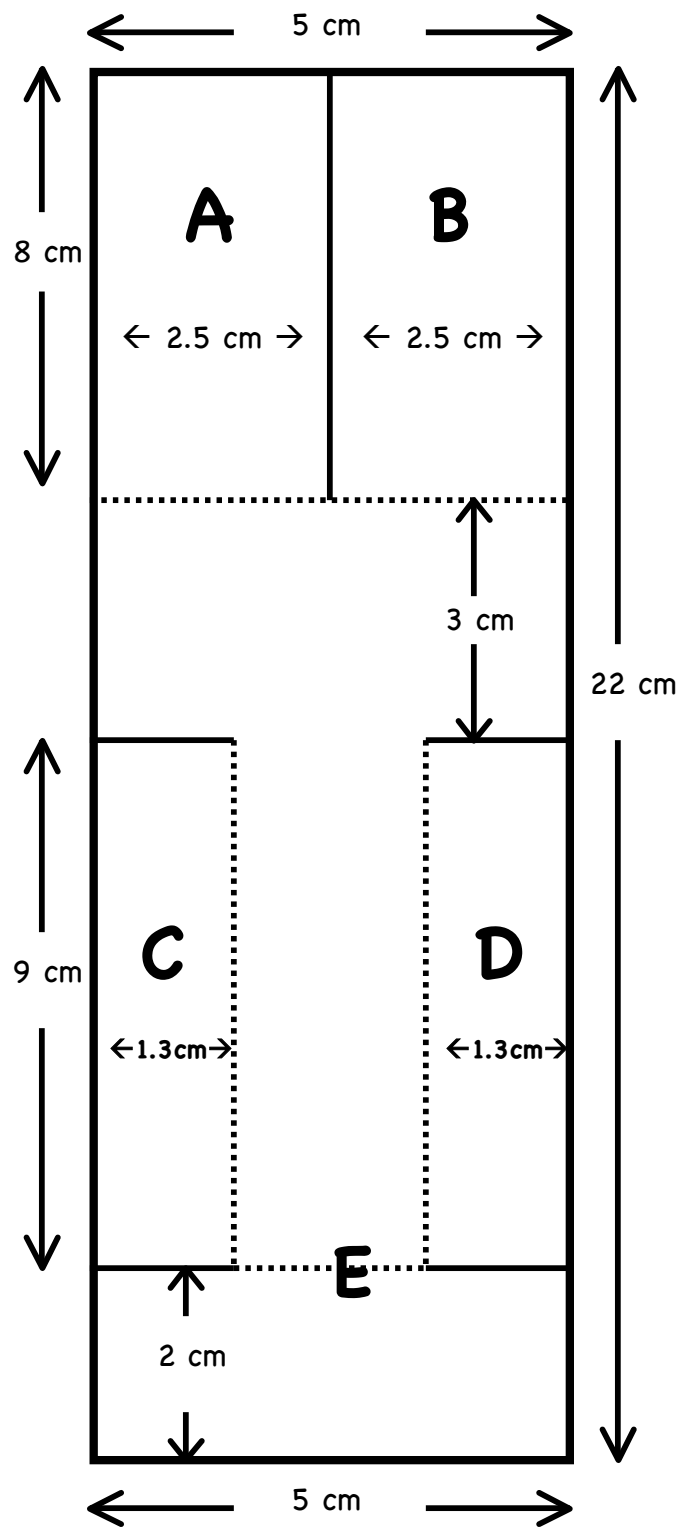
The Great Metricopter

1. Each person on the team must construct their own metricopter. Study the metricopter design on the right.
2. Notice that the design shows METRIC UNITS.
3. Notice that the metricopter design is SCALED DOWN. The drawing is less than the actual size of your metricopter.
4. Construct the metricopter FULL SIZE according to the metric measurements on the drawing.

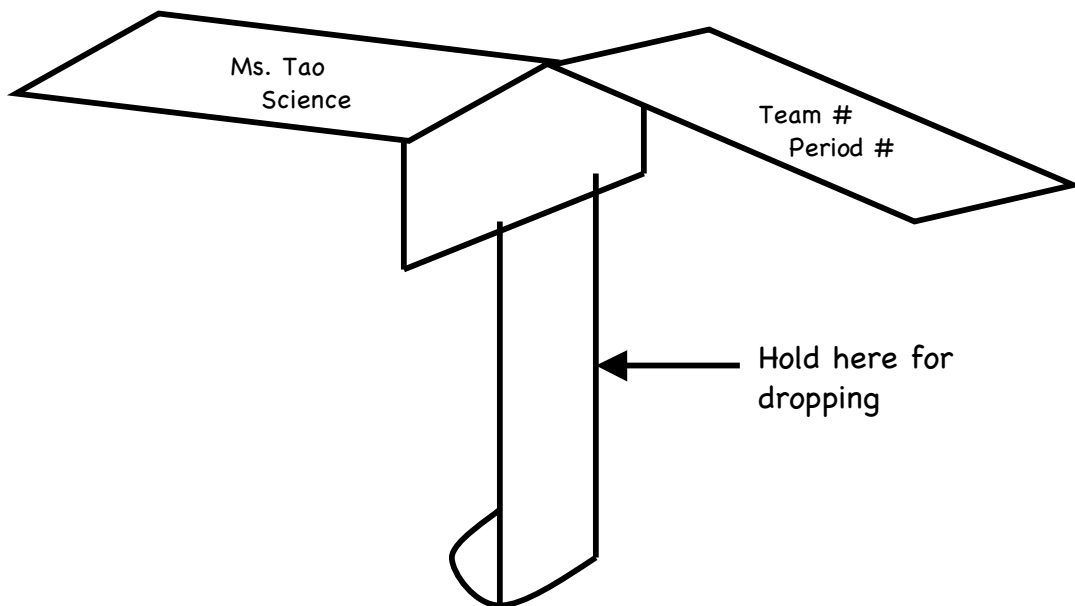
Directions:

DO NOT TRY TO TRACE OUT THE METRICOPTER ON THE RIGHT.

5. Take out one sheet of lined paper. Using the pink line, measure and draw a line that is 22 cm long.
6. Draw a line across the top of the line that's 5 cm wide.
7. Draw a line across the bottom of the line that's 5 cm wide.
8. Mark off your rectangle with the dimensions shown in the drawing. MARK ALL SOLID AND DOTTED LINES.
9. CUT along all SOLID lines shown in the drawing.
10. Fold section "A" towards you (forward) and section "B" away (backwards).
11. Fold section "C" in towards section "D".



12. Fold section "D" towards section "C".
Section "D" will overlap with section "C".
13. After folding "C" and "D", fold up at line "E".
14. Compare your finished product to the sketch below.
15. Write your name and period on the metricopter wings.
16. Test your metricopter by dropping it while standing on a chair. See the sketch below to see where to hold the metricopter when dropping it.
17. Race your lab partner with his/her metricopter. The winning metricopter will fall the SLOWEST to the ground.
18. Find the other lab team who is also making a metricopter and race your best metricopter with theirs. Get your teacher to watch the final race!!



Adapted from *Science Action Labs - Science Fun: Activities to Encourage Students to Think and Solve Problems* By: Edward Shevick