

Art Applewhite Rockets

from deep in the heart of Texas



18mm Pyramid

Specifications: Span – 4.75 inches, Height – 3.5 inches, Weight – 0.5 oz

Recommended motors: A8-3, B4-2, B6-0, B6-2, C6-0, C6-3

Tools and supplies needed

Scissors, #11 X-Acto® knife, Elmer's Glue-All®, ball point pen, metal ruler

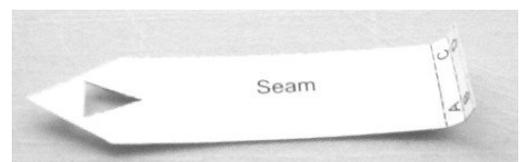
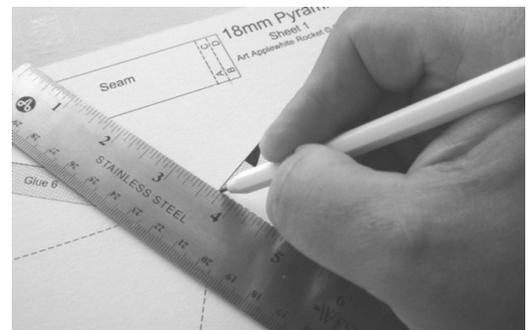
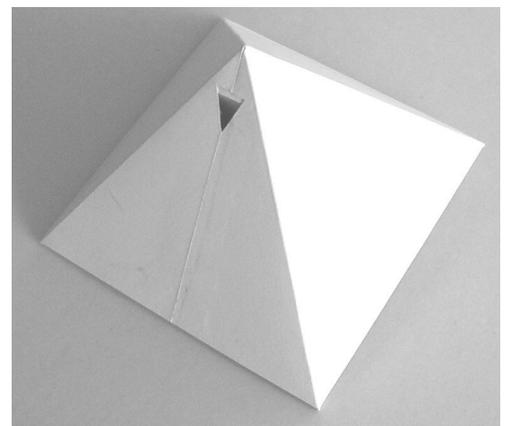
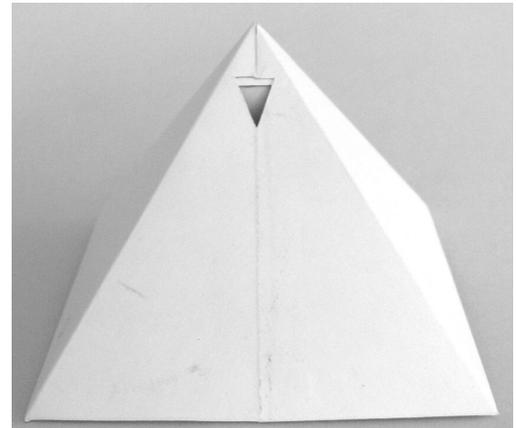
Please read through the entire instructions and tips before beginning. Contact rocket877@aol.com if any parts are missing or damaged.

Tips:

- Use a new #11 X-Acto® knife blade.
- Don't use too much glue, it will only wrinkle the cardstock.
- Do not use yellow, Carpenter's glue.
- Work on a clean surface, in a well-lit and well-ventilated area.
- Cut on the lines.
- Make straight cuts with a metal ruler and a #11 X-Acto® knife.
- Crease all the fold lines by pressing down hard with a ball point pen (a dry one is best) and metal ruler
- Do not cut out the parts until the instructions call for them.
- Test fit parts before gluing them together.
- Wait for the glue to dry before proceeding to the next step.
- Clean the glue off your fingers frequently to avoid getting it on the outside of the rocket.

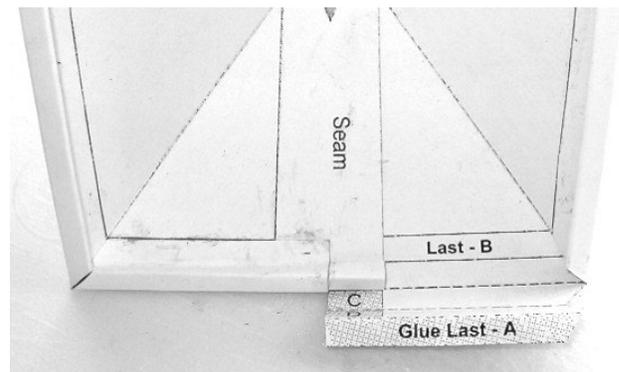
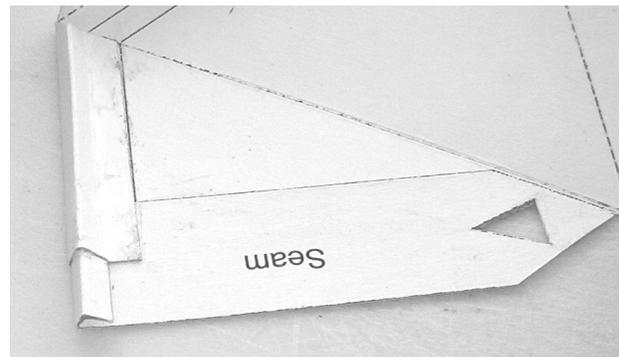
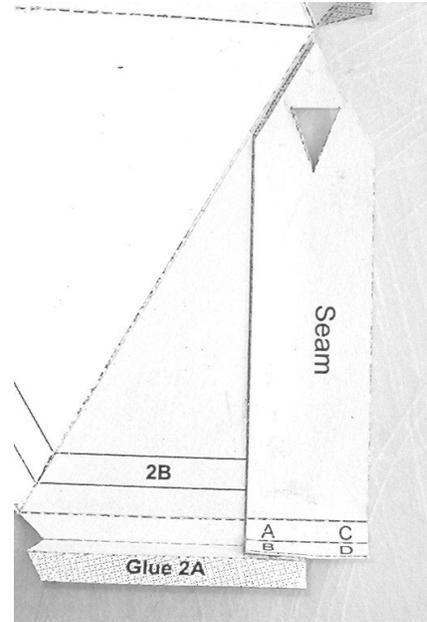
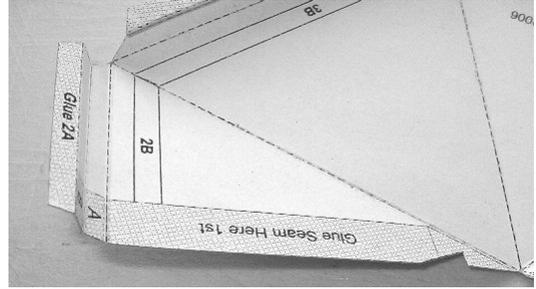
Assembly

1. Crease all the dashed lines on Sheet 1. This is best done using a dried-up, fine-tipped, ball point pen and a metal ruler.
2. Cut out the Seam from Sheet 1 and cut out the small black triangle from the Seam.
3. Fold on the two dashed line towards the printed side. The small black triangles are the holes for the Launch Rod.



18mm Pyramid - Page 2

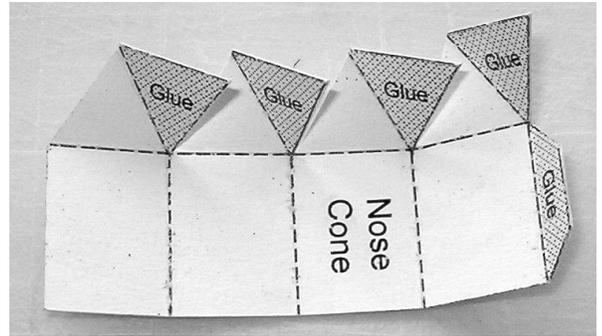
4. Cut out the Pyramid and cut out the small black triangles.
5. Fold on the dashed lines. Most of the dashed lines are folded toward the printed side, but the glue tabs (Glue 2A, Glue 3A, etc.) are folded away from the printed side. (See photos)
6. Glue half of the Seam to the Pyramid where it says "Glue Seam Here 1st". Make sure the part of the Seam marked ABCD lines up with the corresponding letters on the Pyramid and the triangular hole in the Seam matches the triangular cut in the Pyramid.
7. Spread white glue thinly and evenly over the tab marked "Glue 2A" and press it against the area marked "2B" on the inside of the Pyramid. Press the tab flat against the inside of the Pyramid. This should form a small triangular tube at the base of the Pyramid. If you use the right amount of glue, i.e. not too much, the bond should be almost immediate.
8. Taking one tab at a time, repeat the above step for the tabs marked "Glue 3A", "Glue 4A" and "Glue 5A". Do not glue the tab marked "Glue Last - A" yet.
9. Glue the other half of the Seam to the area marked "Glue 6". Make sure the outside of the Pyramid where the edges meet is flat and the edges fit against each other without overlapping.
10. Glue the tab marked "Glue Last" as was done in Step 5.
11. Make sure the base of the Pyramid is a perfectly square and put a drop of glue at the base of each corner.



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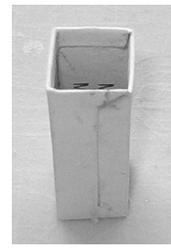
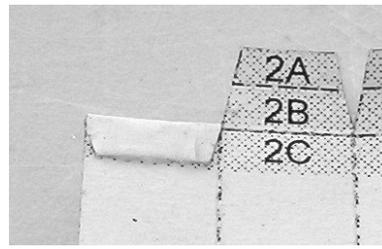
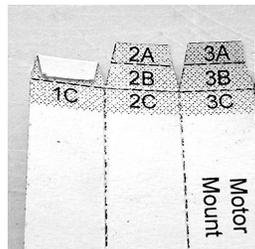
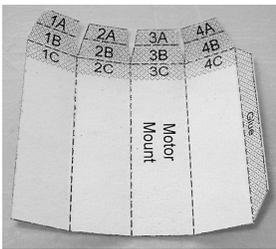
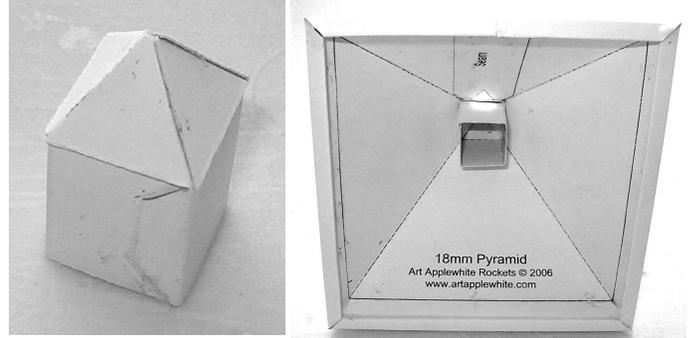
Nose Cone

12. Crease all the dashed lines on Sheet 2.
13. Cut out the Nose Cone. Fold all the dashed lines toward the printed side.
14. Form the Nose Cone into a square tube with a pointed top and glue together.
15. Glue the Nose Cone into the apex of the Pyramid.
16. Coat the inside of the Nose Cone with a thin layer of white glue to improve its heat resistance.



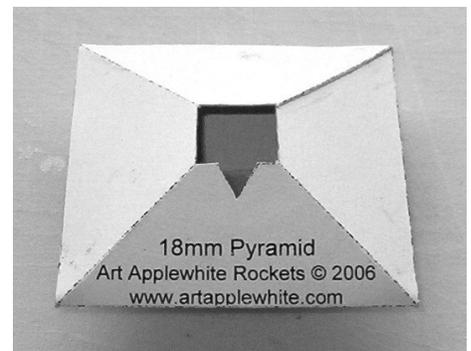
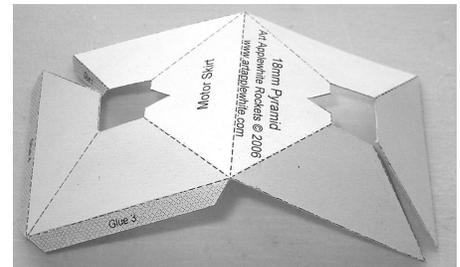
Motor Mount

17. Cut out the Motor Mount.
18. Fold tab 1A over and glue to tab 1B, Fold the combined tabs over and glue to 1C. Make sure the combined tab is flat and securely glued.
19. One at a time repeat the above step for tabs 2, 3, and 4.
20. Form the Motor Mount into a square tube and glue together with tabs 1, 2, 3, & 4 on the inside.



Motor Skirt

21. Cut out the Motor Skirt and cut out the small black triangles.
22. Fold all the dashed lines away from the printed side.
23. Glue the tab marked Glue 1 to the underside of the edge next to it.
24. Repeat the above step for the tab marked Glue 2.
25. Fold the two halves of the Motor Skirt over with the printed side out.
26. Spread glue thinly and evenly over the tabs marked "Glue 3" "Glue 4", and "Glue 5" and press the two halves together. Make sure the glue tabs are flat against the inside of the Motor Skirt and all the edges line up.
27. Make sure the glue is dry on the inside of the Nose Cone, then slide the Motor Mount into the Nose Cone until it stops.

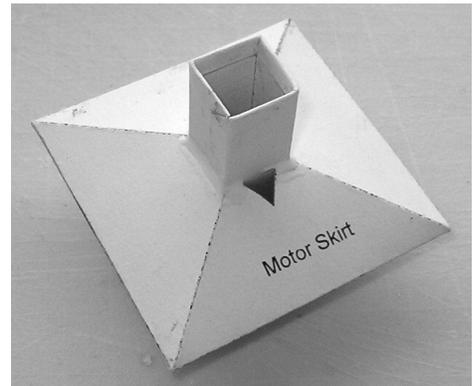
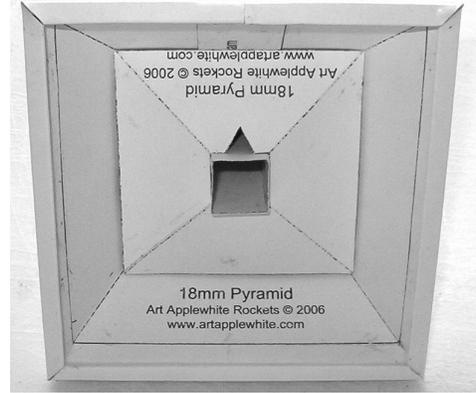


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28. Slide the Motor Skirt over the end of the Motor Mount and down until it just touched the inside of the Pyramid. It should be centered.
29. Make a fillet of glue around the joint where the Motor Mount and the bottom of the Motor Skirt meet.
30. Remove the Motor Mount from the Nose Cone and make a fillet of glue around the joint between the Motor Mount and the top of the Motor Skirt.
31. Spray the finished rocket with clear enamel to protect the cardstock and glue from moisture.

Launch Preparation:

- Friction fit the motor into the Motor Mount using masking tape. A tight fit is not necessary.
- Install an igniter in the motor.
- Put one sheet of recovery wadding in the top of the motor to reduce charring on the inside of the Pyramid.
- Insert the Motor Mount into the Pyramid so that the Launch Rod Holes line up.
- To avoid damage from the motor exhaust, support the Pyramid at least 6 inches above the blast deflector with a clothespin.



Limitation of Liability: Model rockets are not toys. Model rockets are functional rockets constructed of lightweight materials and launched using pre-manufactured, NAR safety certified model rocket motors in accordance with the NAR Model Rocket Safety Code. Model rockets, if misused, can cause injury, property damage and even death. Art Applewhite Rockets certifies that it has exercised reasonable care in the design and manufacture of its products. Once sold, we cannot assume any liability for product storage, transportation or usage. Art Applewhite Rockets shall not be held responsible for any property damage or personal injury whatsoever arising from the handling, storage, use or misuse of our product. The buyer assumes all risks and liabilities there from and accepts and uses Art Applewhite Rockets products on these conditions.