



APOLLO 14 ANNIVERSARY

The Moon has a lot less gravity to keep things on the ground like we have on Earth. Did you know that in 1971 an astronaut played golf on the Moon to see how far a golf ball would go?

ART CHALLENGE

To celebrate the 50th anniversary of NASA's Apollo 14 lunar mission why not follow the instructions below to make your very own three-dimensional lunar scene, showing astronaut Alan Shepard's golf ball soaring for miles and miles above the Moon?!



Materials needed for your lunar mission:

- cardboard (cereal box / pizza box etc.)
- black paper (two A4 / one A3 sheet) / black poster paint (+brush)
- x4 printed templates + 1 blank sheet of white paper (A4-sized)
- gluestick
- sellotape
- scissors
- pencil, 30cm ruler +rubber
- felt-tip pens / colouring pencils / crayons

Technique:

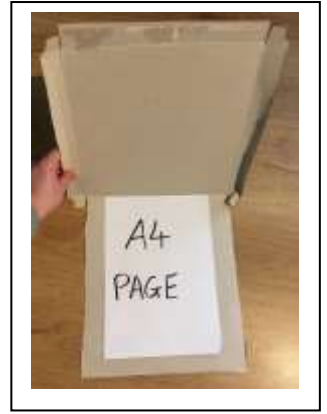
Using the secrets of 'pop-up' craft, folding cardboard legs and '3-D' shading, your flat piece of artwork will come to life!

Ready?

Set...

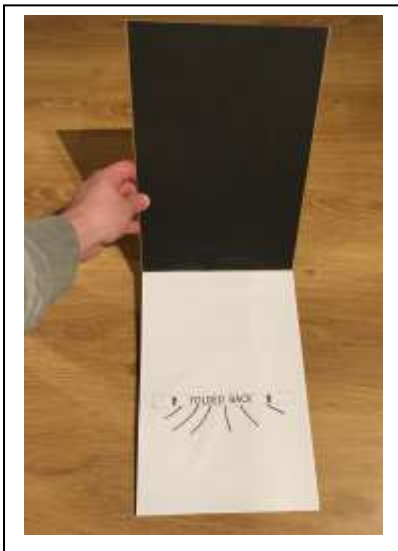
LAUNCH!

1. Find a long piece of cardboard the size of two A4-sheets end-to-end. A cereal box or pizza box opened out flat will do. If there is already a fold – use this as the midpoint fold.



2. Print out Template 1 and glue it on the back (the printed side) of your box, with the arrows touching the cardboard fold at the bottom.

3. With the 2 layers of card held together, carefully trim the excess card around the outline of the template (3 sides only).

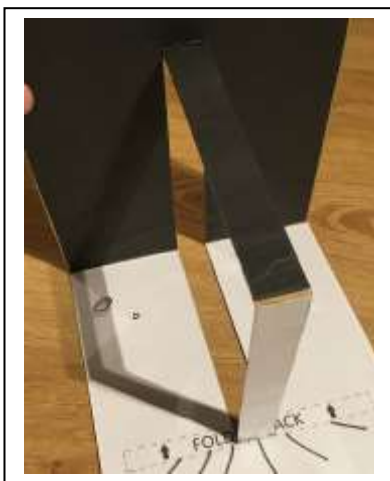


4. Open your card. The top half will be the sky backdrop. Cover with black paper or paint black (then leave to dry).

5. Glue Template 2 to the lower half (arrows pointing to horizon fold).



6. Close card and carefully cut along the 2 solid parallel lines on Template 1 (cutting through both card layers).

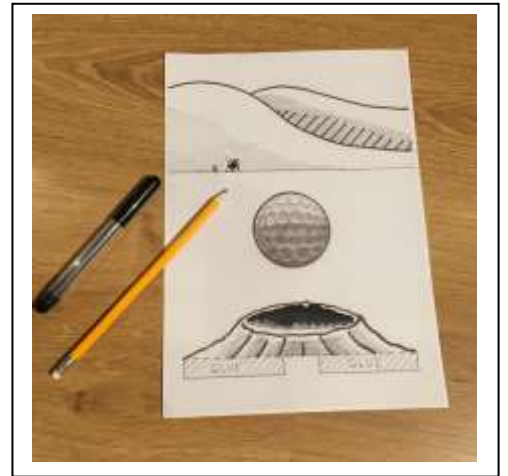


7. Open card and push the newly-created pop-up 'leg' through, pressing a fold along the dotted line.

8. On the inside press a neat fold at the foot of the leg along the foremost dashed line on Template 2. Press the card completely flat so leg now hinges in opposite direction.

9. Using black and grey colouring pens and pencils add some depth and shape to the lunar hills and crater on Template 3.

10. Why not draw a Lunar Lander Module or Lunar Roving Vehicle in the distance (against the hills) along with astronaut Alan Shepard swinging his modified soil sampler/golf club?!



11. On the Moon's surface (lower half of card) consider adding some grey colour and dark patches, along with craters and larger rocks. *[Remember: some shadows at the base of objects can help to create a sense of an object really 'being there', in 3 dimensions!]



12. Cut out a piece of black paper a little larger than the open slot on the back of the card. Glue around edge of slot and stick the paper on top to cover the gap.



13. Glue the underside of the bottom of your card and cover with a white sheet of paper so that both gaps are now covered from inside your card.

14. Cut out the hills, golf ball, and crater, folding the crater's gluing flaps backwards along the dashed line.

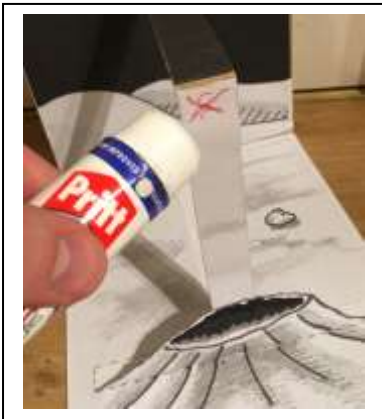
15. Add some glue to the base of the pop-up leg and carefully glue inside the dashed line area on Template 2.



16. Stick the crater's downward-facing flaps to the dashed line area with the crater facing towards you.



17. Press the crater down flat against the pop-up leg to attach it.



18. Glue your hills above the horizon fold.

19. Cut out a piece of black paper and glue it to camouflage the top half of the white pop-up leg against Space.

20. On the pop-up leg add a dab of glue just beneath the hinge and attach the golf ball (with the ball centred over the spot).



21. With the card closed, grab a 30cm ruler and draw a pencil line straight up the back of your card.

22. Cut out the triangle on Template 4, glue on a leftover piece of card, trim around its outline and sellotape on the back along the line (arrows in).

23. Flip the triangle over and tape again along the join. This is now the support leg.



24. Take the model label on Template 4, add some colour and write your name.

25. Cut it out and glue to the blank side of your fold-up model.

26. Now, with your commemorative plaque attached your Lunar craft mission is complete!



27. So just one last thing to do.... pop-up your Apollo 14 Moonscape one last time, open out the support leg at the back and –

ADMIRE!!

