



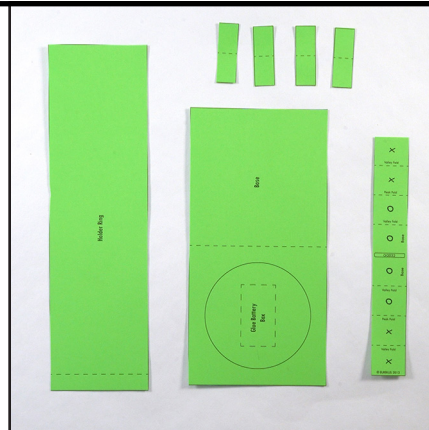
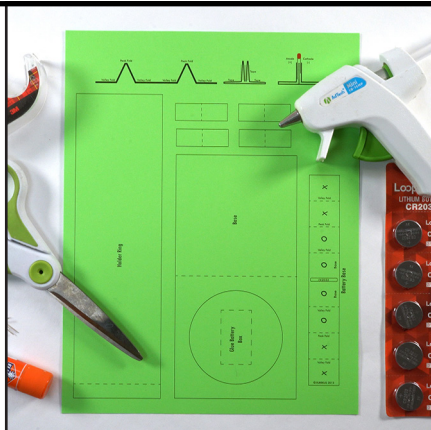
UCAR CENTER FOR SCIENCE EDUCATION

ATMOSPHERE LAYER LANTERN

Explore Earth's Atmosphere, Create a Cool Night Light!

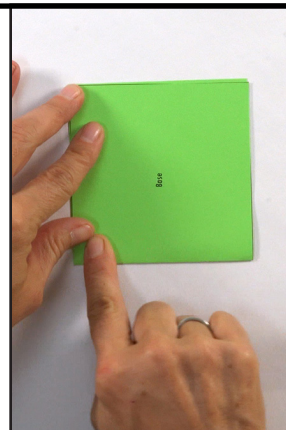
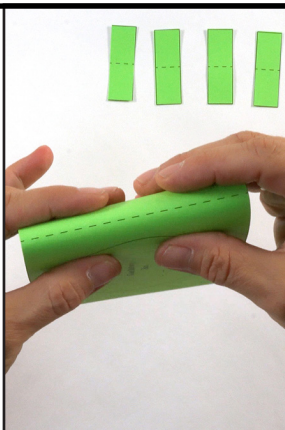
1) Lantern Base

- Print the base template—on cardstock if available.
- Cut out the Holder Ring, Base, & Battery Box on the solid black lines.
- If not using hot glue, cut out the four tabs.



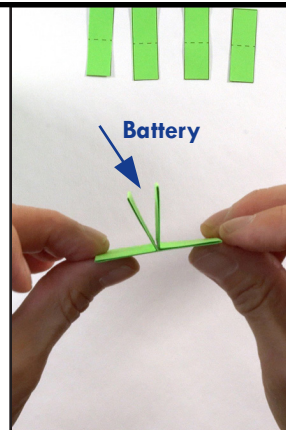
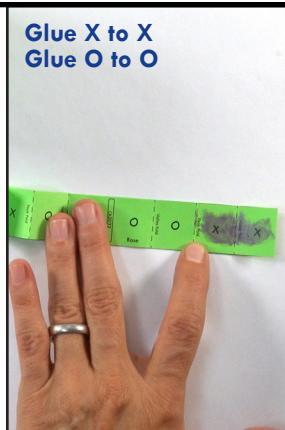
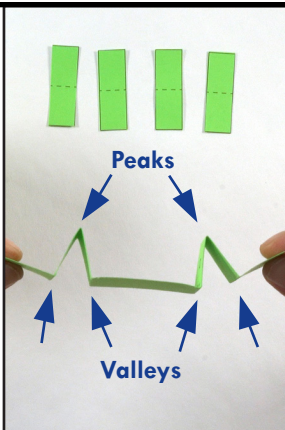
2) Base Template

- Fold in half along the dashed line.
- Rub edge with the side of a glue stick for a crispy fold.
- Open the base, add stick glue or hot glue to the inside. This also adds structure.
- Fold the base again to make a square & press to secure.



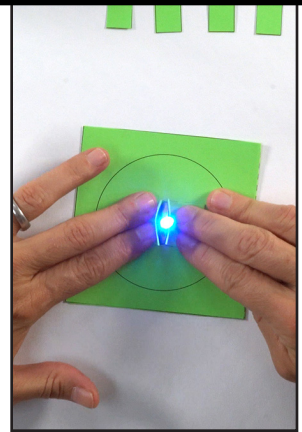
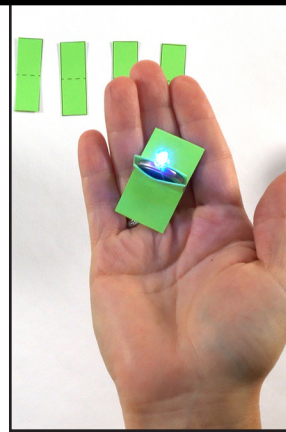
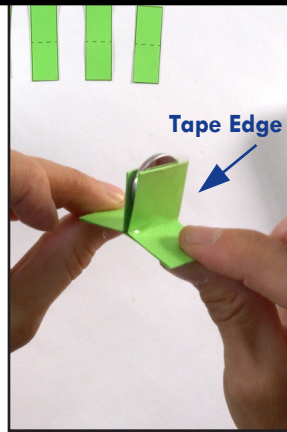
3) Battery Box

- Fold template's dashed lines into peaks (^) and valleys (v) as shown.
- Glue the X squares together.
- Glue the O squares together.
- You will get a base with 2 tabs to hold your battery.



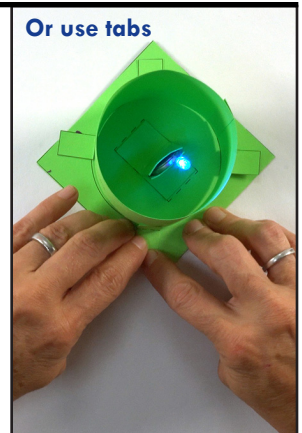
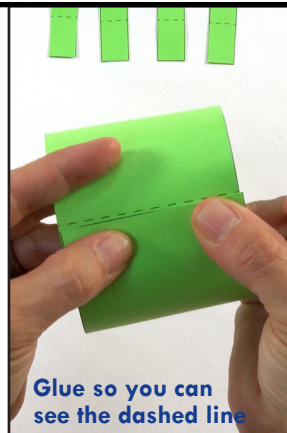
4) Battery & LED

- Insert a coin cell battery between the tab V.
- Scotch tape around the tabs to create a battery pocket.
- Add LED light. The long (+) lead goes on the (+) side of the battery.
- Glue the battery box to the lantern base on dashed box.



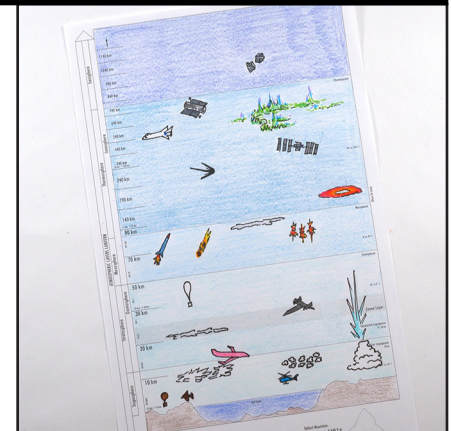
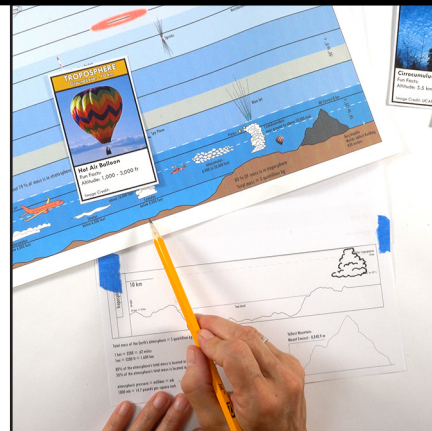
5) Holder Ring

- Roll your template around a glue stick to make it curl.
- Glue into a ring with the dashed line visible.
- Use hot glue or tape to attach the ring to the circle on the base.
- Or fold the 4 paper tabs. Glue or tape to secure base & ring.



6) Lantern

- Explore Earth's atmospheric phenomena with UCAR trading cards & on the UCAR Learning Zone.
- Starting at the troposphere, decorate Earth's five atmosphere layers with favorite discoveries.
- Cover upper layers with blank paper, uncovering as you go!



7) Assembly

- Roll your lantern template into a tube.
- Apply glue or tape to long edge that says "Glue To Line". See tips for this in video.
- Add the LED to battery box.
- Insert lantern into the holder ring. Note the top of the ring is at sea level.
- Celebrate your cool creation!

