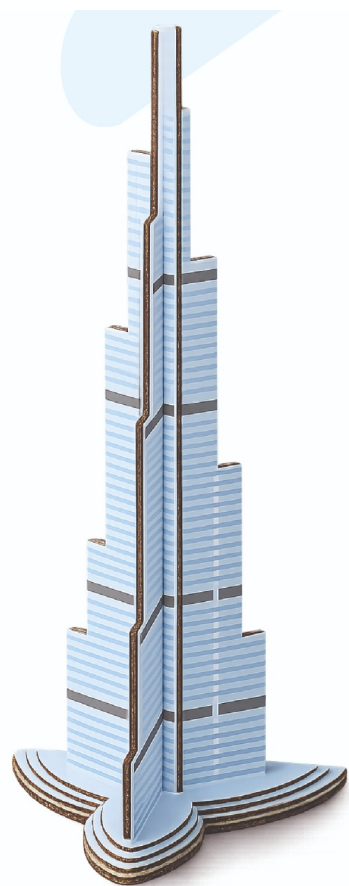


Burj Khalifa

Build your way to the top.



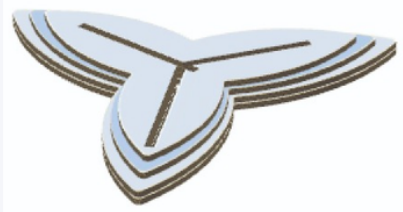
**WATCH.
PAUSE.
BUILD.**

Stack the base. Fit the tower. See it stand tall.

Choose: cardboard only or a steady red warning light.

Find your pieces

A grown-up checks your parts. Work on a flat, dry table.



4 base layers

Shown stacked



**Joined tower sections
+ last piece**



**Optional top stick
Grown-up only**

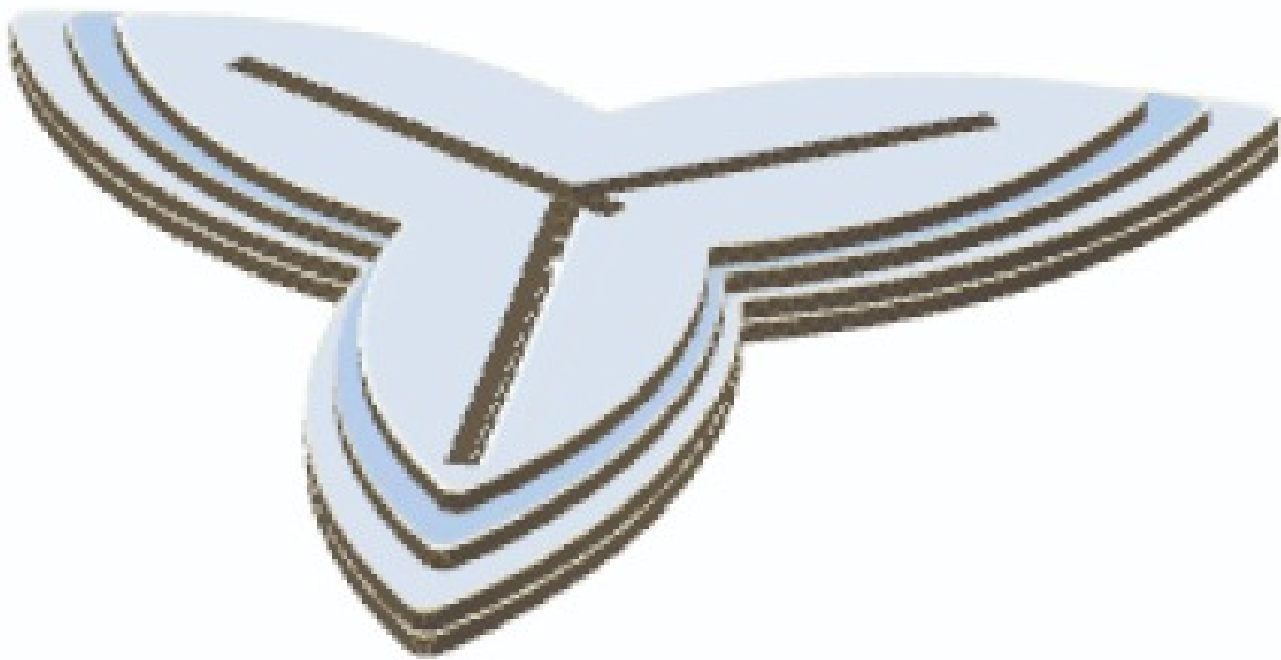
Top position shown

Press gently. Ask for help if a piece is hard to fit.

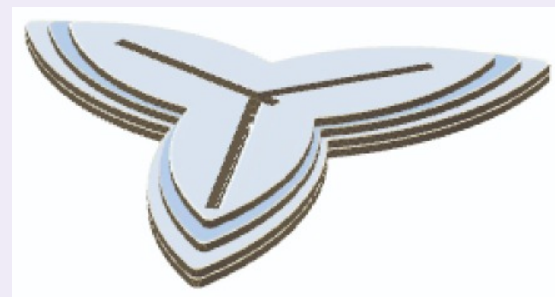
STEP 1 OF 4

Stack the base

Put the largest base layer down first. Stack the others from big to small. Line up the three arms and their slots.



LOOK HERE



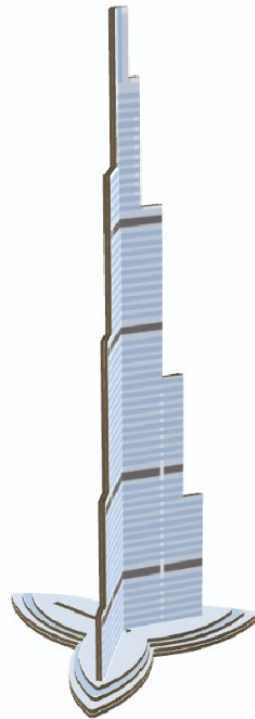
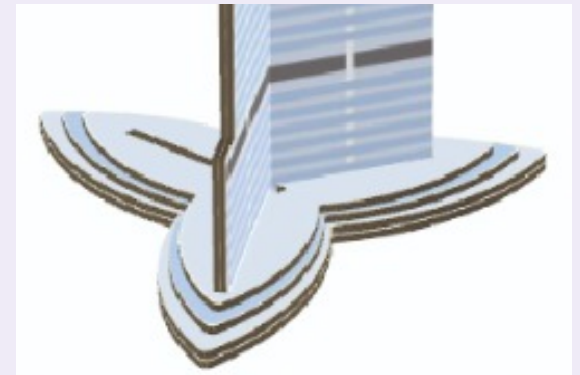
Keep the slots lined up.

CHECK Biggest at the bottom. Smallest at the top.

STEP 2 OF 4

Stand the main tower

Find the two joined tower sections. Fit their bottom edges into the matching base slots. Hold the base and press gently near the bottom.

**LOOK HERE**

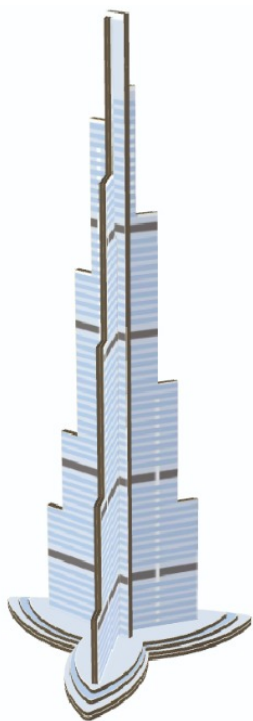
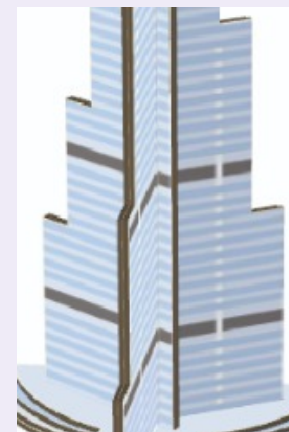
Press near the base.

CHECK The tower stands straight.

STEP 3 OF 4

Add the last section

Fit the last tower section into the remaining base slot. Keep the tall edges lined up, as shown.

**LOOK HERE**

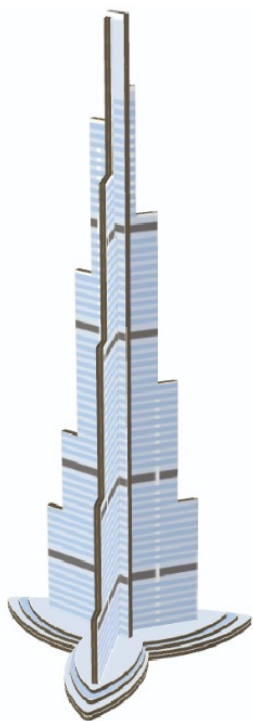
Check the centre join.

CHECK All three sides meet neatly.

CARDBOARD ONLY: OPTIONAL TOP

Finish the top

Ask a grown-up to fit the top stick. This point is called a spire. The reference uses a toothpick. You can leave it off. Adding the LED? Skip this top stick.

**LOOK HERE****Top of the tower.**

CHECK A grown-up handles and secures the sharp point.

Add a steady red light

A grown-up sets up this part. Leave the toothpick off.



What your grown-up needs

- Red LED + copper tape
- One tested 3V coin cell
- Screw-closed battery holder
- Insulating tape

Loose coin cells are for grown-ups only. Keep the battery enclosed.

LIGHT 1 OF 5 - GROWN-UP HELPS

Make two copper paths

With the battery disconnected, a grown-up runs two separate copper-tape strips up the back of the tower. Keep a clear gap between them.

TWO SEPARATE COPPER PATHS

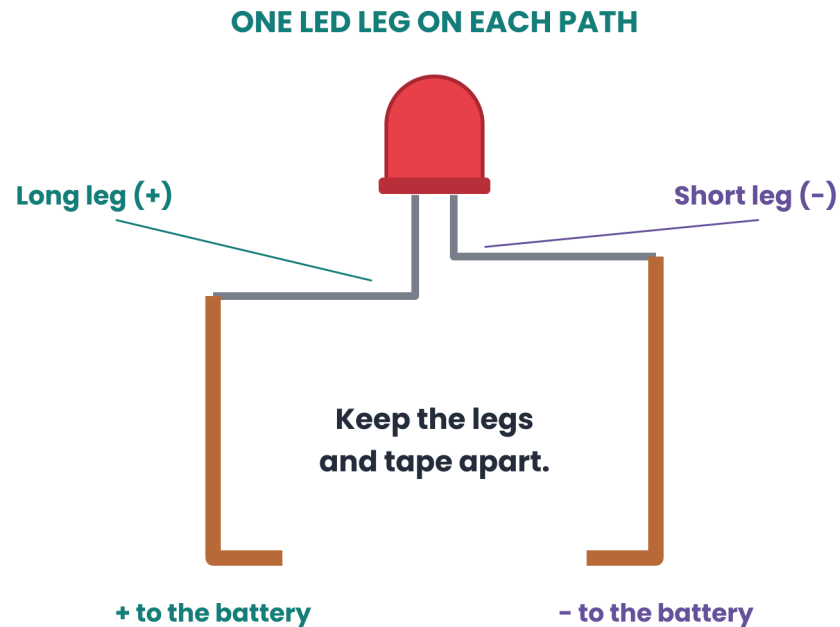


CHECK The two paths never touch or cross.

LIGHT 2 OF 5 - GROWN-UP HELPS

Fit the red LED

A grown-up puts the LED at the top. Connect its long leg to the plus path. Connect its short leg to the minus path.



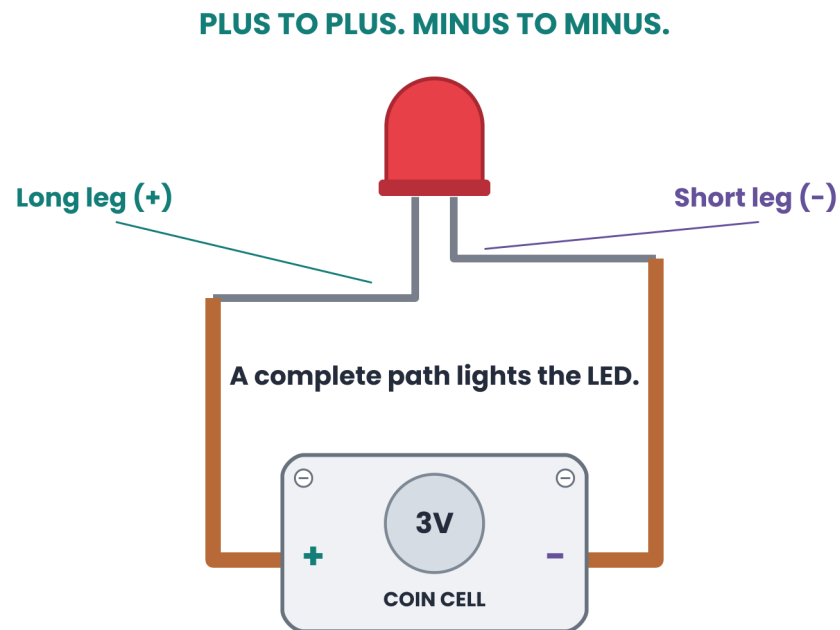
Metal leg touches copper. Insulating tape holds it down.

CHECK Each metal leg touches a different copper path.

LIGHT 3 OF 5 - GROWN-UP HELPS

Connect the battery

Your grown-up connects the plus path to the holder's + terminal and the minus path to its - terminal. They fit the 3V coin cell and close the holder securely.



Screw-closed holder: a grown-up fits the battery.

CHECK The battery is enclosed. No loose coin cell.

LIGHT 4 OF 5 - GROWN-UP HELPS

Watch it shine

Your grown-up completes the connection. Look at the top: the red light stays on. It does not blink.

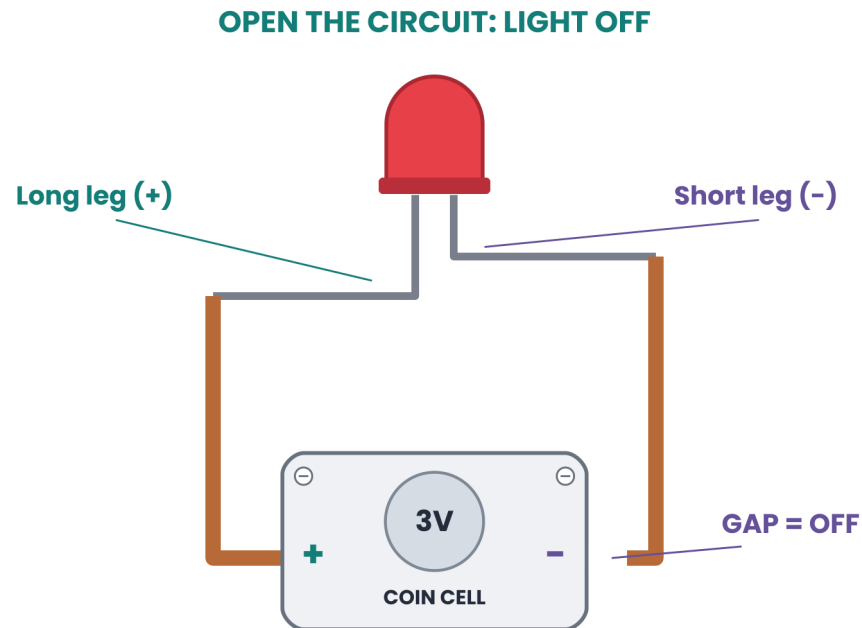


CHECK A steady red light shines at the top.

LIGHT 5 OF 5 - GROWN-UP HELPS

Finish and switch off

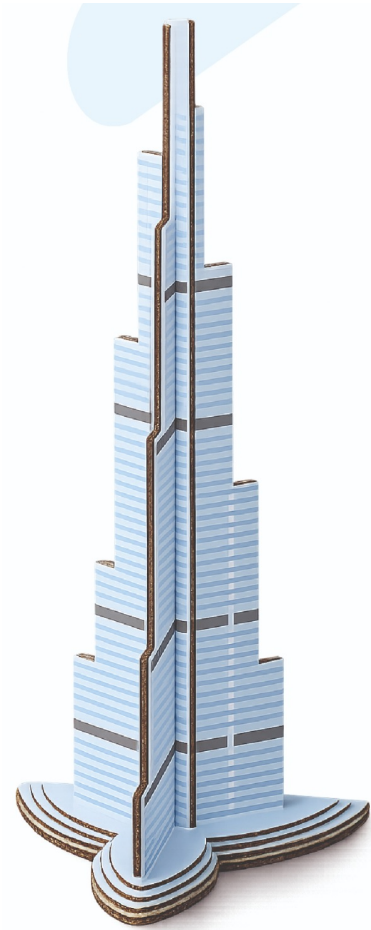
When you finish, a grown-up disconnects the power. Keep the battery secured and out of reach.



Screw-closed holder: a grown-up fits the battery.

CHECK The light goes out when the circuit is open.

You made it!



LOOK + DISCOVER

Look at the base from above. Can you find its three arms? Now follow the tower from its wide bottom to its narrow top.

Carry your model by its base, using both hands.

A quick grown-up check

Check the real cardboard joints before building. For cardboard only, a grown-up may add and secure the toothpick spire; leave it off if it cannot be safely fixed. For the light version, omit the toothpick and use the LED at the top. All coin-cell handling and wiring are for a grown-up. Use one tested 3V coin-cell/LED pair and a screw-closed battery holder. Tape alone is not a child-resistant battery enclosure. A direct LED circuit must be validated for the supplied parts; if the LED needs current limiting, add the correctly specified resistor before use. Never substitute a higher-voltage battery or USB supply. Disconnect before adjusting, if anything becomes warm, and after use.

If a piece does not fit: stop, check its direction and compare it with the picture. Do not force the cardboard.

Contacts: use continuous copper strips where possible. A metal LED leg must touch bare copper, not only adhesive. If leads were trimmed, confirm polarity from the LED markings. Never bridge the two battery terminals with copper tape.

No light? Disconnect power first. Check + and - and each contact. Do not leave the model powered unattended. If a battery may have been swallowed or inserted, seek emergency medical help immediately.

Images: supplied Cardbriks parts, assembly and prototype references. Physical fits must be checked on the real kit.

The learning idea

A complete circuit lets current pass through the LED. A break stops the current. The model represents an aviation obstruction light, which helps make a tall structure visible. It is a classroom model, not a real aviation light.

LED polarity and paper circuits (open reference)

Coin-cell precautions (open reference)

Obstruction lights (open reference)