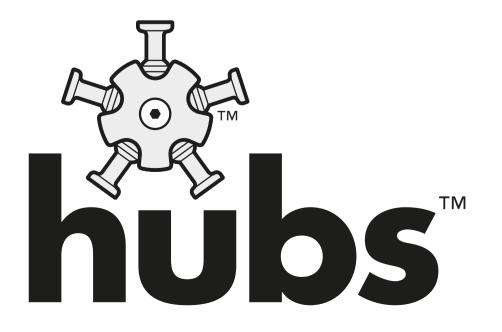
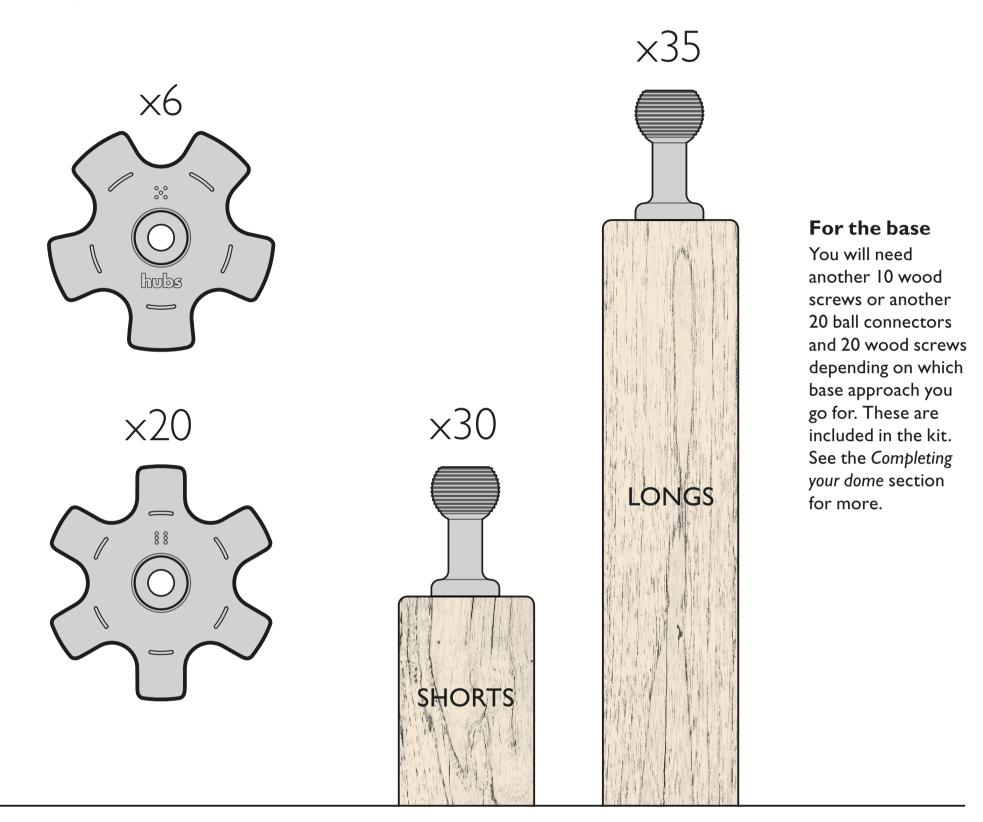
to build **YOU** dome.

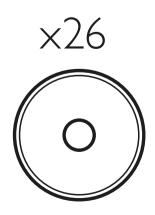


Parts checklist

I. To build the dome



2. To clamp-up the hubs



Locking plate
Clamps the ball
connectors in place
once the dome is in

its final position.



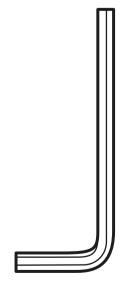
Hub screw
Goes through the centre of the hub for clamping.



Wing nut
Screws onto the end
of the hub screw to
clamp the locking
plate in place.



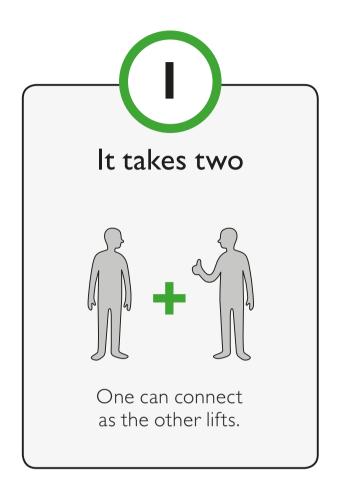
Hanging eyelet Use this to hang something nice from the centre of your dome.

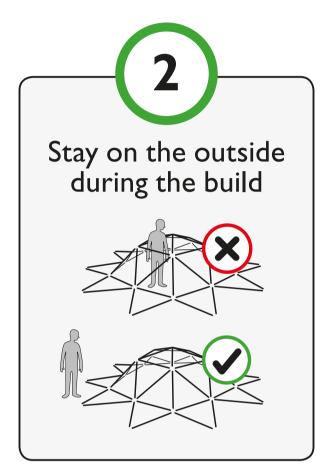


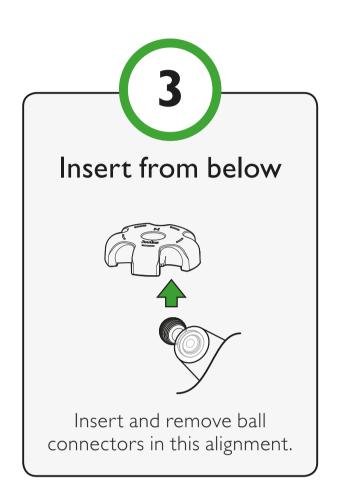
Allen key
Used to hold
the hub screws
in position when
clamping the hubs.

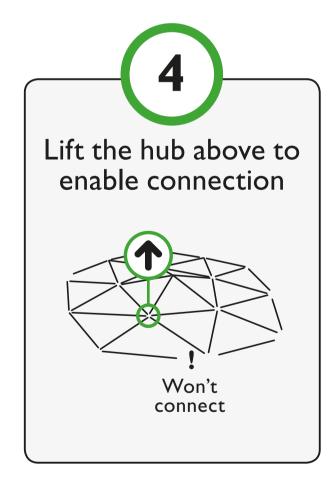
Principles

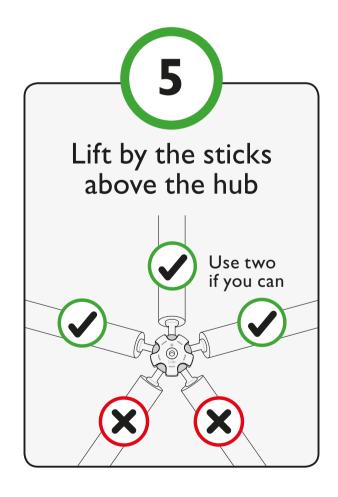
These are useful things to remember to help the build go smoothly.

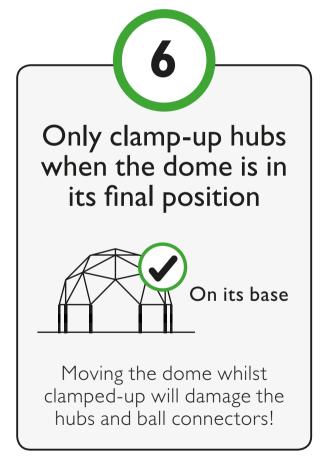






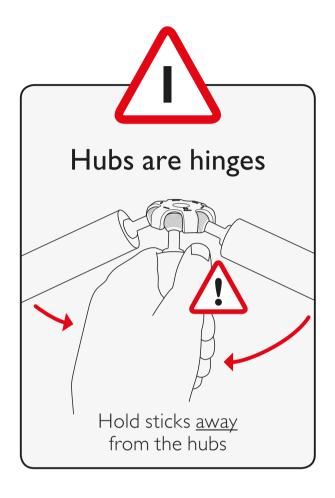


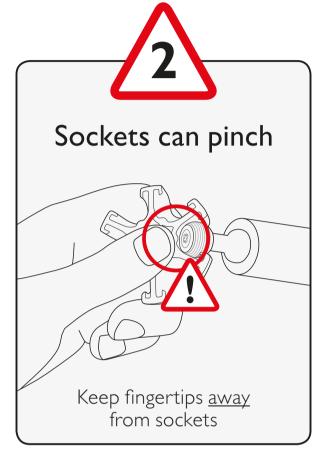




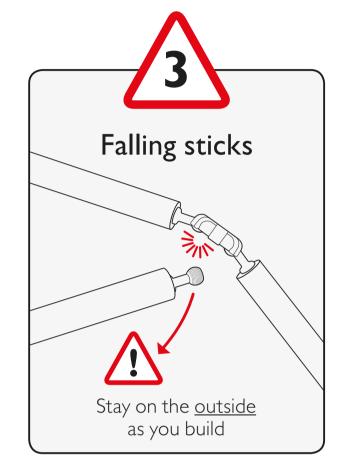
Watchouts!

Building your dome should be great fun and the last thing we want is for people to hurt themselves. Here are a few things to watch out for:

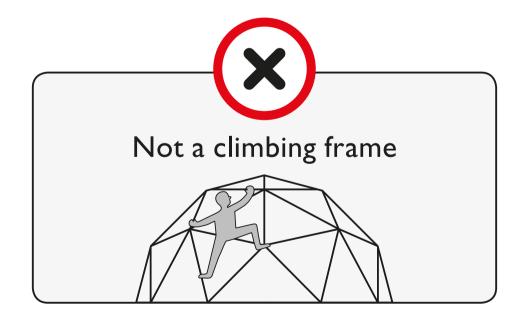




Tip:Wearing gloves
minimises the risk.



Tip:If a stick pops-out just pop it back in!



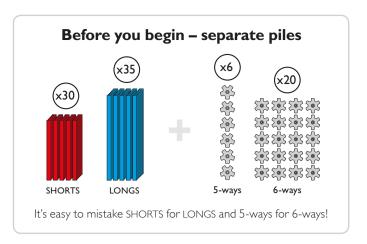


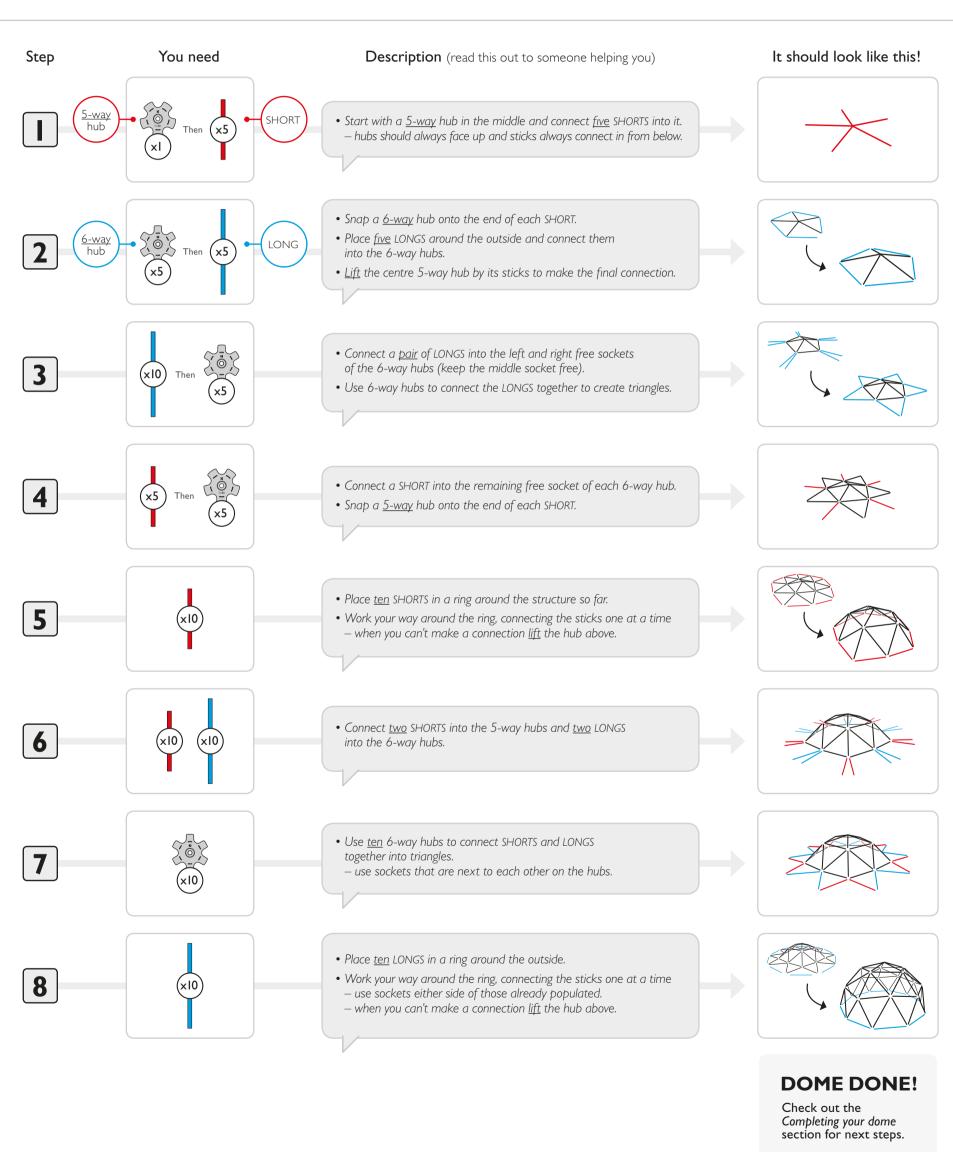
The benefits that hubs bring to the build and adaptation of domes comes at the cost of ultimate strength.

Domes built with hubs are still satisfyingly sturdy structures which are more than strong enough for their intended uses; eg fruit cages, garden rooms, chicken runs etc.

The build

Read out the descriptions and check progress against the illustrations.











Completing your dome

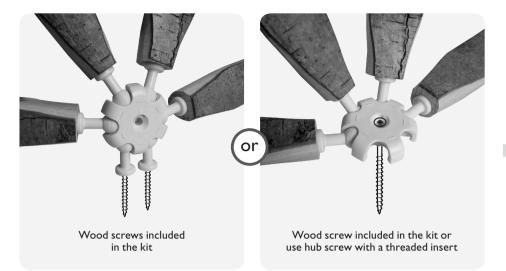
Once you've built your dome, move it into its final position before clamping-up the hubs. Two people should be able to drag your dome to another position. We'd recommend four people or more if you are lifting the dome.

I. CHOOSE BASE APPROACH



Anchor your dome

Whichever base approach you use ensure that the dome and any cover is securely anchored to the ground. Wind can place an enormous force on sheet covers and even netting.



Standing up

Screw two ball connectors 3mm apart onto your base. You could also use two ball connectors in a hub as a template. Test your first attempt in a hub to check that the position is ok.

Tip: If proving tricky, slightly loosening one ball connector helps.

Lying down

The hub sits horizontally and a screw through the centre of the hub can fix it to the base. It's also possible to use a hub screw if you embed an M6 threaded insert in your base.



Temporary use

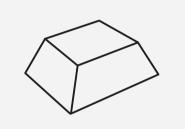
It is possible to simply rest your dome on the ground using the lying down approach. Stake through the centre of hubs or stake down the bottom ring of sticks. If the dome is on a hard surface use metal weights or sandbags to secure the base in position.

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LOW BASE

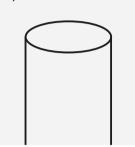
Even a small foot can help to protect the bottom ring of sticks from damp



RAISED BASE



A greater sense of space and easy access for smaller domes



Small feet

These can simply be blocks of wood. Drill with holes so you can stake them to the ground. You can also add eyelets or hooks for attaching covers.



Not too wide

If the hub is <u>lying down</u> make sure the width of the feet or posts is 70mm ($2\frac{3}{4}$ ") or less to be sure that they don't clash with the sticks.



Build your dome first and mark the position of the hubs. Then make holes with a little wiggle room so you can adjust the position of posts when you put the dome on top.



(

Get the angles in the base ring as consistent as you can before fixing in place.

2. CHECK ALIGNMENT

Hubs will want to find the right alignment but after a build some might be out of position.





Correct by pulling sticks towards the outside of the dome. Pushing inwards can pop sticks out of the hubs!

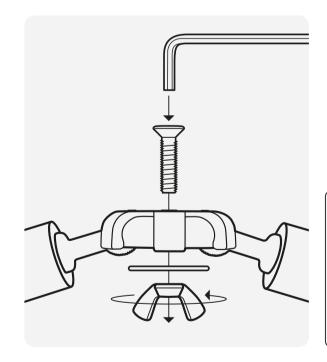




Tap sticks left and right to correct rotational misalignment.

3. CLAMP-UP THE HUBS

Once finger-tight use the allen key to clamp firmly.



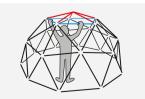


Un-clamp all hubs before moving a dome.

Moving a dome whilst the hubs are clamped-up will damage the hubs and ball connectors!

Taking down your dome





One person supports the weight of the dome by holding the central pentagon as shown (blue).

A second person removes the SHORTS of the central pentagon (red).



The next sticks to be disconnected can be rested on the ground to support the dome as you dismantle it.



Continue the process until you're back to a collection of hubs and sticks!



