# Cube

This model is built to replicate dice, but a bit bigger, leaning in to the idea of the object being multi-use. To use this object, you must touch four of the sides to the screen in a certain pattern and the authentication will complete.

The order of the side to touch to the screen is the side showing 6 pips, then 1 pip, 4 pips and finally 2 pips. When you touch the object to the screen you must ensure that you are touching any of the black pips on any of the sides, as well as not touching the screen of the phone at any point during the authentication once you have started as this will cause the authentication to fail.

**Add picture of use of the die**

# Credit Card

This model is built to the standard size of a credit card (with some added thickness to ensure the plastic doesn’t break) meaning it can fit in a wallet or purse. To use the model, you must enact a ‘turning’ motion over the ring of dots much life you would turn a safe lock, with the model on your phone as shown.

Starting from any of the dots, but for instructional purposes this will show the top-most dot, run your finger over 4 dots in a clockwise direction, then 6 in an anti clockwise direction. Finally, ensuring you are not touching any of the other points, tap the rectangle and the authentication is complete. Important to note, do not touch the phone screen at any point after starting the authentication, and do not move the object, as the authentication relies on the touch points remaining in the same place on the screen, as such, place the object on the screen initially in such a way that none of it is hanging over the edge.

**Add picture of model on phone, and a series showing the dots that must be touched in order**

# Pendant

This model is built to act as a pendant that could go on a keychain or necklace. The main idea of this model is to act like a combination lock – turn the layers to the right combination then touch to the screen to unlock your phone.

On the each side of a layer, there will be a number. Align the layers with the numbers x, y and z in a column from the top, once the phone is ready, place the object on the phone screen and touch both touch points to authenticate. Do not touch the screen at any point during the authentication, as this will likely make the authentication fail.

**Add two pictures here, one indicating the touch points on the top – ie the axis and dot – and the other showing the combination in a column so it’s unambiguous**