

Plunge detection layer

You can detect if you plunged out the far cortex of the bone while you're drilling by adding a layer of aluminum (silver foil) to your layers and connecting it to a buzzing or light circuit. This is an important component of how you will self-assess and improve your bone drilling skills as you move through the training.

If you do not have access to a circuit and if you are just using the simple simulator (not the multiple layer model), you can position the bone model in a layer of clay/mud and you can then pick up the bone to see how far into the clay you plunged after drilling the far cortex.

Simple circuit detector

Materials Needed:

Buzzer/ or light:

We would recommend to ideally use a buzzer as the sound feedback is superior to light feedback. You can buy a simple buzzer at a hardware store or you can remove the musical producing portion of success card or musical cards

Wire: Use 18 or 20 gauge wire.

Battery: Use a battery that supplies the voltage needed for your buzzer (It will say on the buzzer) for the Success cards musical chip we used a _____ Battery

Aluminum foil

Clay/mud layer detector

If you would like to practice If you do not have access to the materials needed for a light or buzzer circuit, you can use a thick slab of mud that you can lay on a table and place your bone into the clay. When you drill the far cortex, the drill bit will enter into the clay however far you "plunge". You can then pick up the bone and see how far you plunged. This mud/clay layer will also allow you to stabilize the bone as you are practicing your drilling.