

Timecode	Block X : RX XXX - Making an Oboe
01:00	IN
01:01	Claire is playing a musical instrument called an oboe. It makes a lovely sound, but how is one made?
01:09	Igor is fixing a piece of square shaped wood onto this machine so he can change the shape of it.
01:16	The wood spins very quickly and when the sharp blade touches it, it cuts away bits of wood.
01:28	Igor has to wear safety glasses as the bits of wood fly everywhere.
01:34	Up and down, up and down ... until the square shaped piece of wood turns into a round shaped piece of wood called a cylinder. This is the start of a musical instrument called an oboe.
01:50	Igor takes the cylinders to be stored with lots more cylinders so the wood gets harder. And after a while they are ready to have holes put in them ...
02:00	But Igor has to wait for a very, very long time before he can make the hole bigger and bigger.
02:06	Once the cylinder has the right sized hole through the middle of it, Mike can add more holes to the sides - these holes are what will make the tune when the oboe is finished.
02:20	Mike uses different sized cutters to drill different sized holes into the oboe.
02:39	It looks quite difficult as each hole has to be in exactly the right place, otherwise the finished oboe won't make the right sounds.
02:54	There are lots of holes in the oboe now.
02:59	Meanwhile, Neal is putting a metal sheet into another machine to cut out some more shapes.
03:12	The metal gets hot when the machine is cutting it, so lots of soapy water is sprayed on top of it.
03:25	When it has finished, Neal cleans the soapy water off the sheet.

03:34	Can you see the cut out shapes?
03:37	The shapes are made into buttons like these and it is up to Graham to stick different bits together
03:46	He does this by heating up the buttons, adding some glue and melting them together.
03:59	Look how it sizzles when he puts it into water to cool down.
04:05	He's got lots more to do and when he's finished, Claire can finish off and put all the parts of the oboe together.
04:13	This is a spongy material called cork.
04:17	Using a tiny bit of glue, Claire sticks a bit of cork to all the buttons.
04:29	It's very fiddly.
04:37	She has to be careful cutting the cork as this razor blade is very sharp.
04:55	Each finished button is attached to the oboe and Claire uses a tiny little screwdriver to fix it in place.
05:08	When all the buttons are screwed on, Claire slots the three parts together.
05:18	Look how shiny the buttons are!
05:34	Finally, the mouthpiece goes on and then she is ready to play it!
05:38	OUT

Dur: 4'38"

*Making an Oboe*

Music: *Gentle Reflective*

Composer/Performer: Liz Kitchen & Francis Haines