

## Mission:

Make 'The Buck' out of recycled materials

Ages 7+

**The Buck** is a small Steam Locomotive was built by Messres Kitson and Co Ltd in 1870. It is a 0-6-0 Saddle Tank Locomotive with internal cylinders. The Buck is called a tank engine because it carries its own water in tanks. The Buck was used to move coal around the Newcastle area.

**How cool is that!**

## Materials:

Template

A4 sheets of paper, printer

Sticky tape or masking tape

6 x milk or juice bottle tops

Glue

Cardboard

Bamboo skewers

Scissors

Pencil

Ruler

Hole punch

## Make:

### Toot toot! - Prepare your materials

1. Gather your materials together and print the templates.
2. Lay the templates onto your cardboard
3. Glue the templates to the cardboard and let the glue dry.
4. Cut out the pieces

### Pull the whistle! Put it together

5. Start with the **boiler**. Fold along the dotted line between the **boiler** part and the bottom.
6. Roll the boiler to join it with the bottom with sticky tape.
7. Attach the front of the **Boiler** with sticky tape.
8. Slide the front of the **Cab**. Make two holes in it with a hole-punch. Then tape it in place. Do the same with the back of the **Cab**.
9. Tape the **ab** roof to the front and back of cabin.
10. Fold the **Footplate** parts along the dotted lines. Tape the **Footplates** to the front and back of **Buck** and join them in the middle with sticky tape.
11. Twist the **Chimney** around a pencil to make it curve then sticky tape it to make a tube. Tape it to the front and top of the **Boiler**.

### Release the Brakes! Make it go

12. Turn the **Buck** upside down.
13. Cut a straw into three pieces (or use a roll of paper) and tape to the bottom of the **Buck**.
14. Pierce holes in six plastic bottle tops with bamboo skewers.
15. Push skewer through one bottle-top, through one of the straws and then push the skewer through another Bottle-top. Repeat this step on all the **Wheels**.

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## More to do:

+ Add colours or patterns using paint or coloured paper

+ Build a train track for your new Locomotive

+ Teach someone about the parts of 'The Buck'

**Boiler:** A tank full of water that the fire heats up to make steam.

**Chimney:** Steam and smoke come out of the chimney.

**Cab:** The cab is where the crew operates the locomotive.

**Wheels:** The wheels run along the railway tracks.

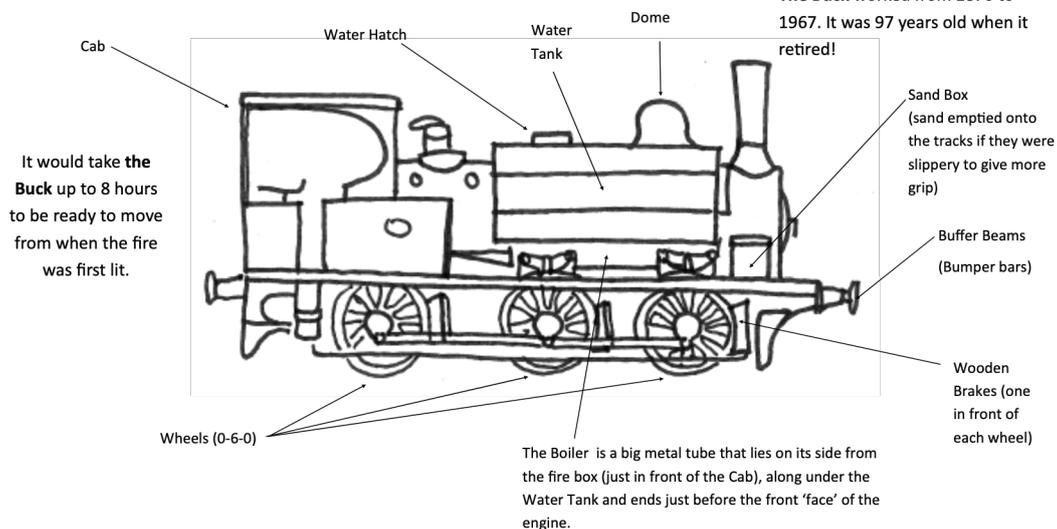
**Footplate:** The crew can walk around the steam engine on the footplate.

### The Buck - at Newcastle Museum

The Buck is a 0-6-0 Saddle Tank locomotive. This means it has no little wheels at the front, 6 big wheels (3 on each side) in the middle and no little wheels at the back. The water tank sits over the top of the boiler like a saddle on a horse.

The Buck has wooden brakes. They would sometimes catch on fire when slowing down!

The Buck worked from 1870 to 1967. It was 97 years old when it retired!

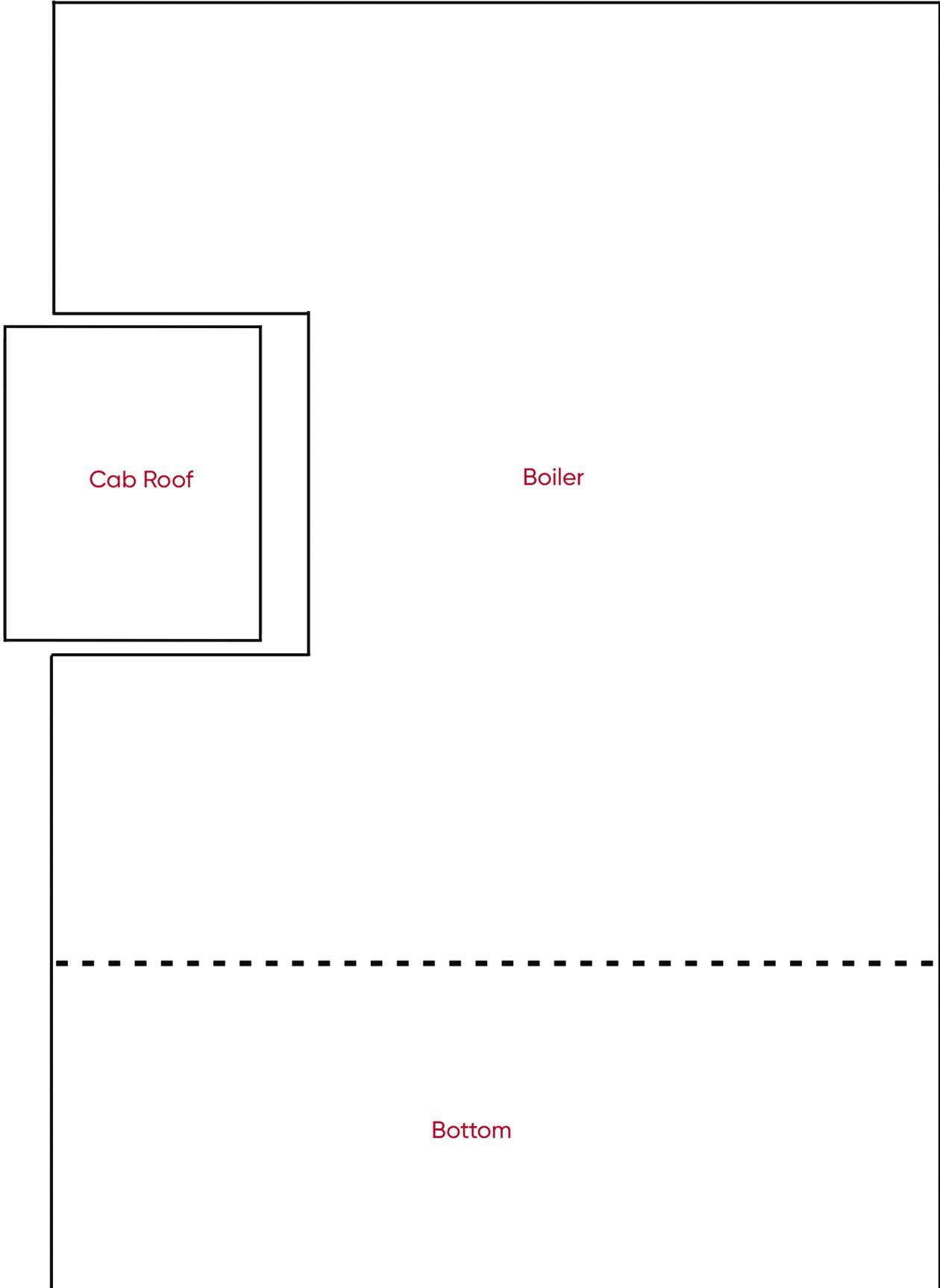


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# The Buck



Fold  
Cut



# The Buck

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Fold  
Cut

