

## Using balloons to model our lungs.

Find a balloon and blow it up to make a small balloon.

Use a tape measure to find the circumference of your balloon.

My balloon's circumference is \_\_\_\_\_ cm.

The surface area of a sphere is  $4\pi \times \text{radius}^2$ .

We can get a rough idea of the surface area of your balloon with this sum:

Circumference divided by twelve, squared, times by twelve.

The surface area of my balloon is roughly \_\_\_\_\_  $\text{cm}^2$ .

The volume of a sphere is  $\frac{4}{3} \times \pi \times \text{radius}^3$ .

We can get a rough idea of the volume of your balloon with this sum:

Circumference divided by twelve, cubed, times by four.

The volume of my balloon is roughly \_\_\_\_\_  $\text{cm}^3$ .