3.4 Respiration

Name:

1. Use the space below to draw a diagram of the lungs. Label it using the words provided.

windpipe			
			bronchus
bronchiole			
			air sac
diaphragm			
2. Match ea	ch part of t	the lungs with its function.	
windpipe	(i)	(a) Gas exchange	
diaphragm	(ii)	(b) Brings gas into and out of the lungs	
air sac	(iii)	(c) Brings gas from windpipe to bronchioles	
bronchus	(iv)	(d) Carries gas into air sacs	
bronchiole	(V)	(e) Muscle at the bottom of the lungs that pulls	
		down to draw air	into the lungs
3. Using the	words bel	ow, complete the equation for	or respiration.
energy		carbon dioxide	oxygen

Food + _____ + water vapour

4. Using a blank page, create an (i) information leaflet, (ii) poster **or** (iii) song to warn people of the dangers of smoking.

5. Describe what happens during gas exchange.

6. Using a diagram to show your idea, design an experiment to test the effects of smoking different brands of cigarette on lungs (Hint: You can use tissue paper instead of lung tissue).

(a) List what you need:

(b) What measurements will you make?

(c) Predict what will happen in your experiment?

(d) How accurate do you think your method will be?