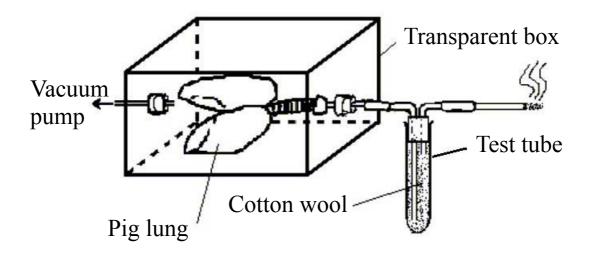
## Secondary 2 Integrated Science Worksheet Unit 7 Living Things and Air: "Smoking and Health"

Name:	Class:	Date:	

## A Smoking Pig Lung

The following apparatus is used to simulate the smoking process note

- 1. the effect of smoking on pig lung
- 2. the substances in effluent smoke
- 3. the mechanism of breathing (inhalation and exhalation)



## **Steps:**

- 1 Wash two pig lungs.
- 2 Fix one of the pig lungs in the transparent box as shown in the above diagram, and connect the vacuum pump to the transparent box.
- 3 Light the cigarette and switch on the vacuum pump.
- 4 When the pig lung is expanded, switch off the vacuum pump.
- 5 Switch the vacuum pump on and off until the cigarette is burnt completely.
- 6 Light 10 more cigarettes by repeating steps 3 to 5.
- 7 Remove the pig lung from the box and compare it with the untreated pig lung.

## Secondary 2 Integrated Science Worksheet Unit 7 Living Things and Air: "Smoking and Health"

N	ame:	Class:	Date:	
Di	iscussion:			
1.	What is the observable d	lifference between the pig lungs w	ith and without smoking?	
2.		s, and observe the differences betv	·	
3.		cotton wool inside the test tub		
4.	Compare the difference Explain it with the "bre	between rates of burning of cigare eathing mechanism".	ttes when the vacuum pum	p is on and off.