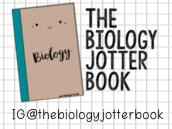
Effects of Tobacco Smoke on Human Health

- Toxic components
- Health problems

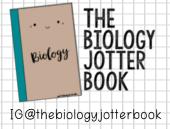


Components of tobacco smoke

Nicotine

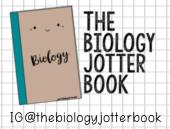
Tar

Carbon monoxide



Nicotine

Properties of chemical Addictive drug Causes the release of the hormone adrenaline Makes blood clot easily Effect on the body Increased heartbeat and blood pressure Increased risk of blood clots in blood vessels



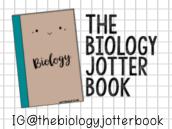
Carbon Monoxide

Properties of chemical

- Combines with haemoglobin irreversibly to form carboxyhaemoglobin
 - reduces oxygen transport efficiency of red blood cells

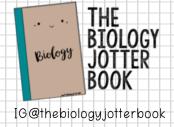
Effects on the body

 Death if concentrations in air are increased by 1%



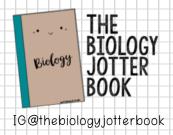
Carbon Monoxide

Properties of chemical Increases the rate of fatty deposits on the inner arterial wall Damages the lining of blood vessels Effects on the body Increased risk of atherosclerosis Increased risk of blood clotting in arteries



Tar

Properties of chemical	Effects on the body
Contains cancer-causing	Blockage in the air sacs and
chemicals which induce	reduction in gas exchange
uncontrolled cell division of the	efficiency
epithelium	
	 Dust particles trapped in the
 Paralyses cilia lining the air 	mucus lining the airways cannot
passages	be removed

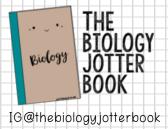


Health Problems

Chronic bronchitis

Emphysema

Lung cancer



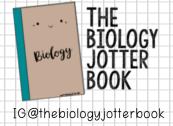
Chronic Bronchitis

- Caused by breathing in irritant particles
- Signs include:
 - Epithelium lining airways becomes inflamed
 - Excessive mucus secreted by epithelium
 - Cilia on epithelium paralysed. Mucus and dust particles cannot be removed.
 - Airways become blocked, making breathing difficult
 - Persistent coughing to clear airways to breathe which increases risk of getting lung infection.

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Emphysema

- Result of persistent and violent coughing
- Signs include:
 - Violent coughing breaks partition walls between air sacs
 - Surface area for gaseous exchange decreases
 - Lungs become inflated with air
 - Lungs lose their elasticity
 - Breathing become difficult. Person wheezes and suffers severe breathlessness.



Lung Cancer

- Cancer is the uncontrolled division of cells producing outgrowths or lumps of tissues.
- Increase in number of cigarettes smoked per day increases risk of getting lung cancer

