## 2.7 AKTIVITI PERBINCANGAN

## Kesan buruk bahan pencemar terhadap sistem respirasi

*Harmful effects of pollutants on the respiratory system*

PBD
Kontekstual

Buku teks m/s 57 – 61

1 Nyatakan bahan pencemar yang berbahaya kepada sistem respirasi dan padankan bahan itu dengan kesan buruknya. TP2
*State the pollutants that are harmful to the respiratory system and match the substances to their harmful effects.*

| | | | | | |
|---|---|---|---|---|---|
| Karbon monoksida *Carbon monoxide* | Sulfur dioksida *Sulphur dioxide* | Tar tembakau *Tobacco tar* | Jerebu *Haze* | Nikotina *Nicotine* | Nitrogen dioksida *Nitrogen* |

| | | | |
|---|---|---|---|
| Mengakis salur pernafasan dan menyebabkan bronkitis *Corrodes the breathing tract and cause bronchitis* | Menyebabkan sesak nafas dan asma *Causes breathing difficulties and asthma* | Menyebabkan ketagihan dan kanser peparu *Causes addiction and lung cancer* | Mengurangkan kandungan oksigen dalam darah *Reduces the oxygen content in the blood* |

2 Cikgu Milah memberi penjelasan dan simptom penyakit respirasi dan mengkehendaki muridnya, Ali untuk mengenal pasti jenis penyakit tersebut. Bantulah Ali./*Teacher Milah gives a description and symptoms of respiratory diseases and requires her student, Ali to identify the types of diseases. Help Ali.* TP2

| | | | |
|---|---|---|---|
| Bronkitis/*Bronchitis* | Kanser peparu/*Lung cancer* | Asma/*Asthma* | Emfisema/*Emphysema* |

| **Penyakit respirasi** ***Respiratory disease*** | **Penjelasan** ***Description*** | **Simptom** ***Symptom*** |
|---|---|---|
| (a) | Radang salur pernafasan, menyempit apabila dirangsang oleh bahan perengsa. *The inflamed breathing channel, becomes narrow when stimulated by irritants.* | Sesak bernafas, batuk, nafas berbunyi *Difficulty in breathing, cough, wheezing.* |
| (b) | Radang bronkus disebabkan oleh bahan perengsa seperti asap rokok. *Inflammation of the bronchus caused by irritants like cigarette smoke.* | Batuk yang berterusan, tercungap-cungap, tidak dapat tidur/*Continuous coughing, breathless, insomnia* |
| (c) | Kerosakan alveolus disebabkan oleh bahan perengsa dalam asap rokok. *The damage of the alveolus due to the irritants in cigarette smoke.* | Sesak nafas, sakit dada, letih *Breathing difficulty, chest pain, tiredness* |
| (d) | Disebabkan karsinogen (bahan kimia penyebab kanser) dalam bahan pencemar seperti asap rokok. *Caused by carcinogens (cancer-causing chemicals) in pollutants such as cigarette smoke.* | Batuk berterusan, kahak berdarah, sakit dada *Continuous coughing, bloody sputum, chest pain* |



LIVEWORKSHEETS