

TWGHs Kwok Yat Wai College
Language Across Curriculum (2015-2016)
S2 Science
Reading Materials

Name: _____ Class: _____ No.: _____ Date: _____



Check the Chinese meaning of the following words.

- a. fog _____
- b. smog _____
- c. humid _____
- d. water vapour _____
- e. condense(s) _____
- f. droplet(s) _____
- g. visibility _____
- h. fuel(s) _____
- i. release _____
- j. haze _____

B Passage

Fog and smog

Fog

When there is little or no wind on a humid day morning, we often see fog on the ground. In Hong Kong, fog is common in spring between February and April.

Fog is formed in light wind and humid condition in the morning. When air near the ground cools down, water vapour condenses into tiny (very small) water droplets. These droplets lower the visibility near the ground, which we call fog.



The Victoria Harbour with fog in the morning

Source: <http://onebigphoto.com/uploads/2011/11/foggy-hong-kong.jpg>

When air temperature is getting higher in the afternoon, water droplets vaporize (蒸發) and fog disappears (消失).

Smog

Smog is air pollution you can see. When cars and factories burn fuels, they release gas pollutants (氣體污染物) such as **suspended particulates** (懸浮粒子), **ozone** (臭氧), **carbon dioxide** (二氧化碳), and **sulphur dioxide** (二氧化硫). Sunlight **reacts with** (反應) them to create **a brownish** (棕色) haze called smog.

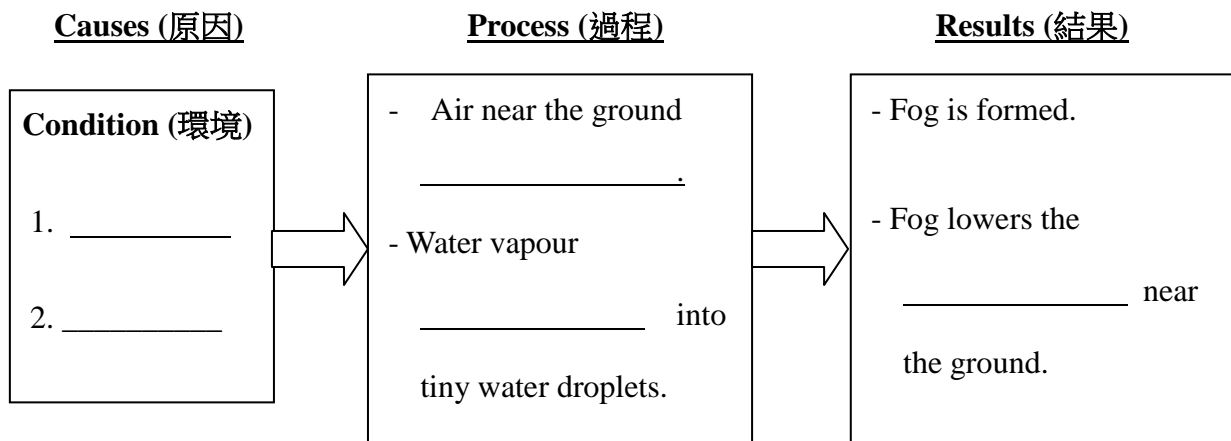


Like fog, smog also lowers the visibility near the ground. However, smog **irritates** (刺激) your **lungs** (肺部), eyes and nose. It also affects your body's ability to fight **infection** (感染), which makes you easily get ill.

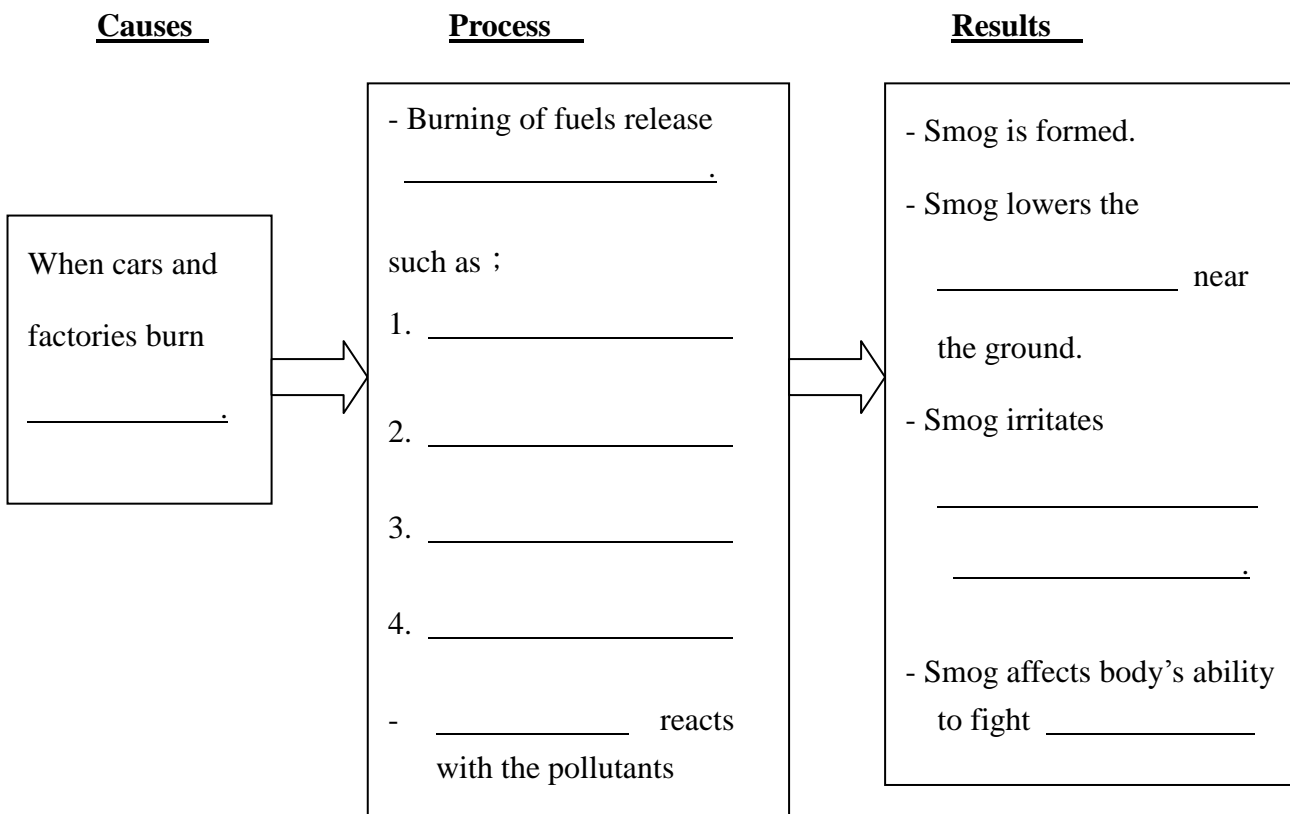
c Tasks over to you

1. Fill in the missing gaps of the following **flowcharts** (流程圖).

a. The **formation** (形成) of fog.



b. The formation of smog.



2. Rearrange the following sentences according to the sentence patterns as shown in the examples:

	When (正當)	Clause 1(子句 1)	Clause 2 (子句 2)
e.g.1:	When	there is little or no wind on a humid day morning,	we often see fog on the ground.
e.g.2:	When	air near the ground cools down,	water vaapour condenses into tiny water droplets.

- a. water droplets / vaporize / and fog disappears / when air temperature is getting higher / in the afternoon.

- b. gas pollutants / release / they / when cars and factories / burn fuels

D Challenge (Optional)

1. Make three sentences using **When**.



When + clause 1, clause 2

- a. When we _____ (heat) water, it _____ (boil) at 100 Celsius degrees.
- b. When we burn fuels, they _____:

End