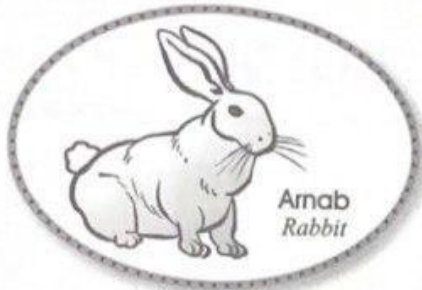


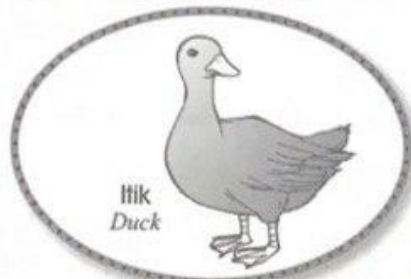
- 1 (a) Nyatakan persamaan dan perbezaan di antara Rajah 1 dengan Rajah 2.
State the similarities and differences between Diagram 1 and Diagram 2.

(i)



Rajah 1
Diagram 1

Arnab
Rabbit



Rajah 2
Diagram 2

Itik
Duck

Persamaan :
Similarities :

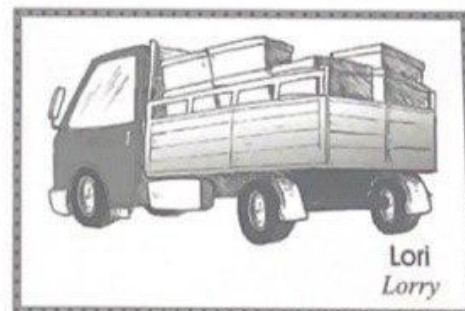
Perbezaan :
Differences :

(ii)



Rajah 1
Diagram 1

Bas
Bus



Rajah 2
Diagram 2

Lori
Lorry

Persamaan :
Similarities :

Perbezaan :
Differences :

- (b) Apakah dua kemahiran proses sains yang digunakan di (a)?

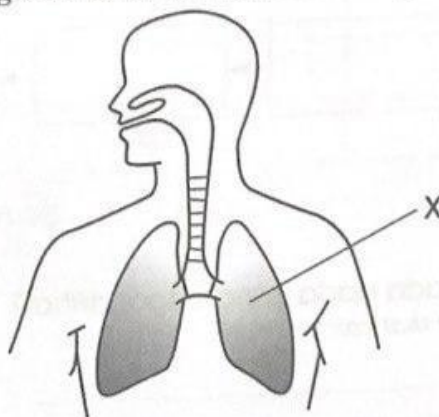
Tandakan ☒ jawapan kamu di dalam ruang kosong.

What are the **two** science process skills used in (a)? Tick ☒ your answers in the blank space.

- ☐ Memerhati
Observing
☐ Mengelas
Classifying

- ☐ Mengukur dan menggunakan nombor
Measuring and using numbers
☐ Membuat inferens
Making an inference

- 1 Rajah di bawah menunjukkan organ yang terlibat dalam pernafasan manusia.
The diagram below shows the organ involved in human breathing.



- (a) Namakan organ X.
Name the organ X.

X : _____

- (b) Mengapakah organ X penting kepada manusia?
Why is organ X important to humans?

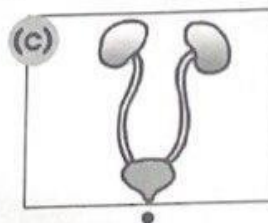
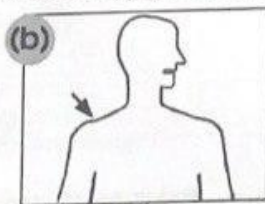
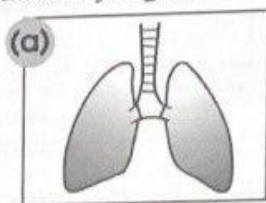
- (c) Nyatakan apa yang terjadi semasa bernafas.
State what happens during breathing.

(i) Semasa menarik nafas, udara _____ paru-paru.
During inhalation, the air is _____ the lungs.

(ii) Semasa menghembus nafas, udara _____ paru-paru.
During exhalation, the air is _____ the lungs.

- (d) Apakah hasil kumuh yang dikeluarkan oleh organ X?
What excretory product is released by organ X?

- 2 Padankan organ perkumuhan di bawah dengan hasil kumuh yang dihasilkan.
Match the excretory organs below with the excretory product produced.



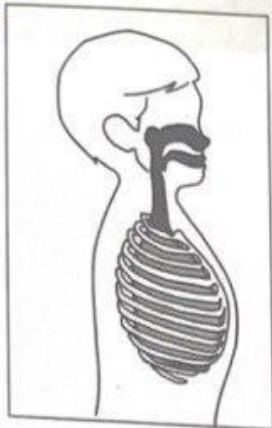
Air kencing
Urine

Karbon dioksida
Carbon dioxide

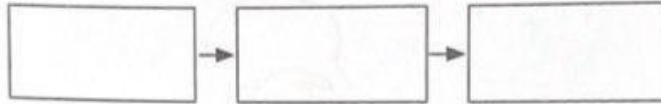
Peluh
Sweat

- 3 Rajah menunjukkan gambar semasa menarik nafas dan menghembus nafas.
The diagram shows the pictures during inhalation and exhalation.

(a) Menarik nafas.
Inhalation.



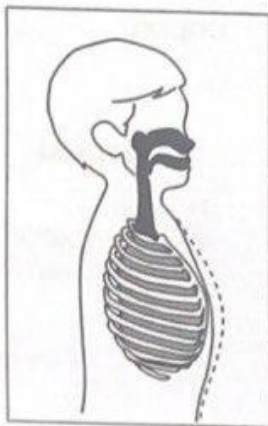
- (i) Tuliskan laluan udara semasa menarik nafas.
Write the passage of air during inhalation.



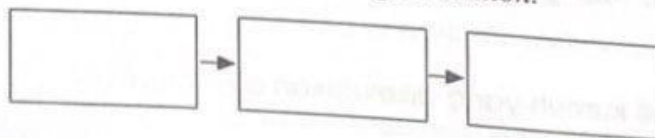
- (ii) Apakah perubahan pada dada yang dapat dilihat?
What change on the chest that can be seen?

- (iii) Terangkan kandungan oksigen di dalam udara yang disedut masuk.
Explain the oxygen content in the inhaled air.

(b) Menghembus nafas.
Exhalation.



- (i) Tuliskan laluan udara semasa menghembus nafas.
Write the passage of air during exhalation.



- (ii) Apakah perubahan pada dada yang dapat dilihat?
What change on the chest that can be seen?

- (iii) Terangkan kandungan karbon dioksida di dalam udara yang dihembus keluar.
Explain the carbon dioxide content in the exhaled air.

- 4 Jadual di bawah menunjukkan masa yang diambil oleh Halim dalam lumba lari 200 m, 400 m, 600 m dan 800 m.
 The table below shows the time taken by Halim in the 200 m, 400 m, 600 m and 800 m races.

Jarak (m) Distance (m)	Masa yang diambil (s) Time taken (s)	Anggaran kadar pematasan dalam masa 30 s Estimated breathing rate within 30 s
200	45	46
400	86	56
600		
800	150	72

- (a) Tuliskan pemboleh ubah yang

Write down the variable that is

- (i) dimanipulasikan :

manipulated :

- (ii) bergerak balas :

responding :

- (b) Apakah corak perubahan kadar pematasan Halim dalam lumba lari itu?

What is the trend of the changes of Halim's breathing rate in the race?

- (c) Ramalkan masa yang diambil oleh Halim pada jarak 600 m.

Predict the time taken by Halim at a distance of 600 m.

- (d) Nyatakan satu inferens tentang masa yang diambil oleh Halim.

State one inference about the time taken by Halim.

- 5 Tuliskan organ deria dan rangsangan yang terlibat bagi setiap aktiviti di bawah.

Write down the sensory organs and stimuli involved for each activity below.



Organ deria :
Sensory organ :

Rangsangan :
Stimuli :



Organ deria :
Sensory organ :

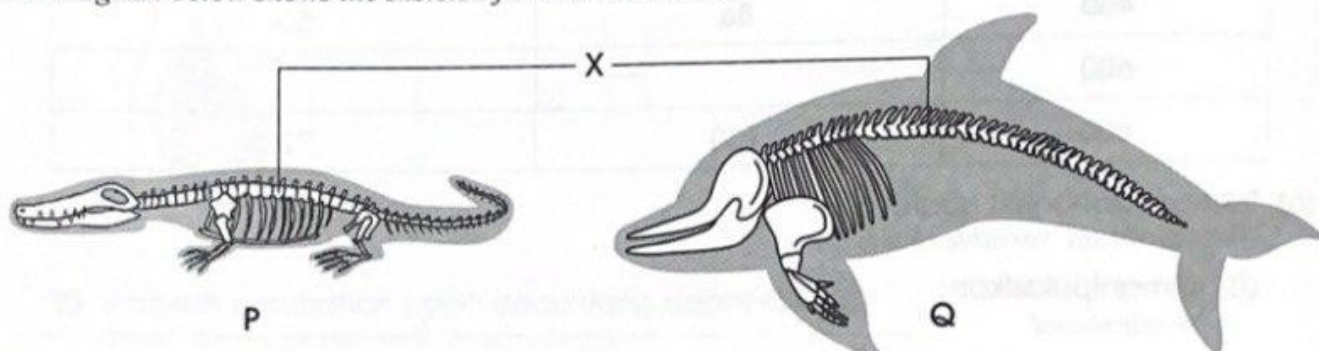
Rangsangan :
Stimuli :



Organ deria :
Sensory organ :

Rangsangan :
Stimuli :

- 1 Rajah di bawah menunjukkan rangka bagi dua haiwan vertebrata.
The diagram below shows the skeleton for two vertebrates.



- (a) Nyatakan kelas haiwan P dan Q.
State the class for animals P and Q.

(i) P : _____

(ii) Q : _____

- (b) Berikan dua ciri khusus bagi kelas haiwan P.
Give two specific characteristics for the class of animal P.

- (c) Apakah X?
What is X?

- (d) Apakah organ pernafasan bagi kedua-dua haiwan ini?
What is the breathing organ for both animals?

- (e) Tuliskan dua contoh haiwan lain yang bernafas melalui cara yang sama seperti haiwan di atas.
Write two examples of other animals that breathe through the same way as the animals above.

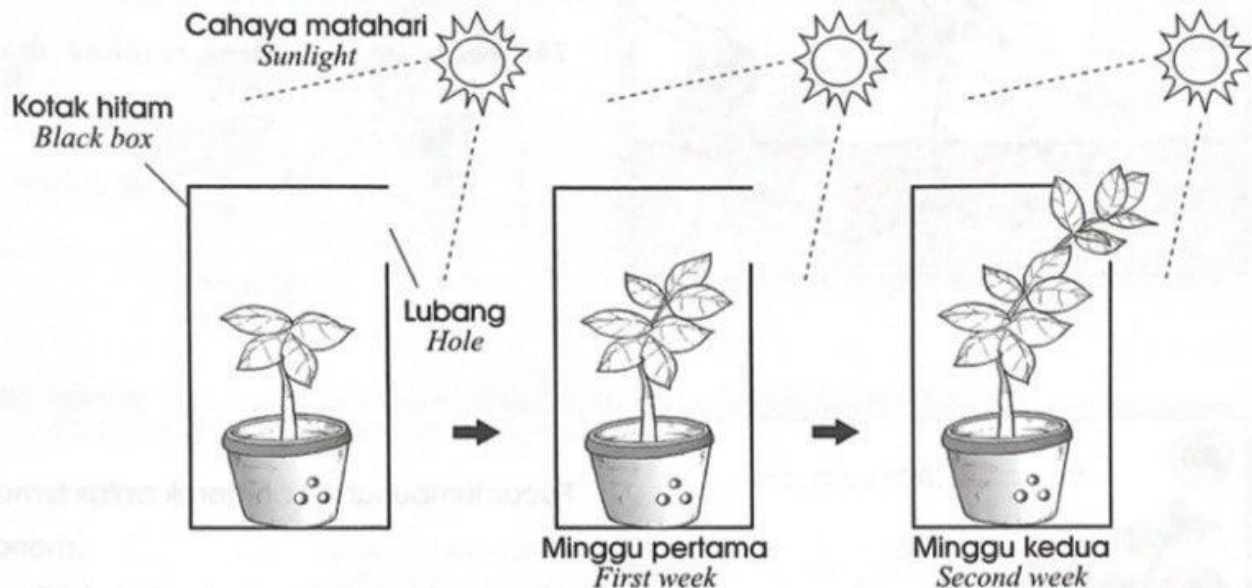
(f)

Katak boleh hidup di darat dan di air
Frog can live on land and in water

Berdasarkan pernyataan di atas, bagaimanakah katak bernafas ketika berada di darat dan di air?

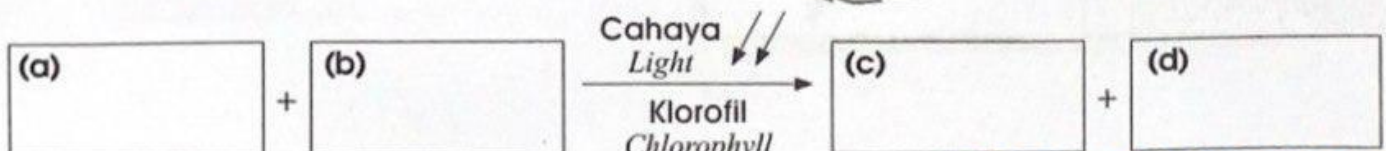
Based on the statement above, how do frogs breathe when on land and in the water?

- 1 Suatu eksperimen dijalankan seperti yang ditunjukkan dalam rajah di bawah.
An experiment is conducted as shown in the diagram below.



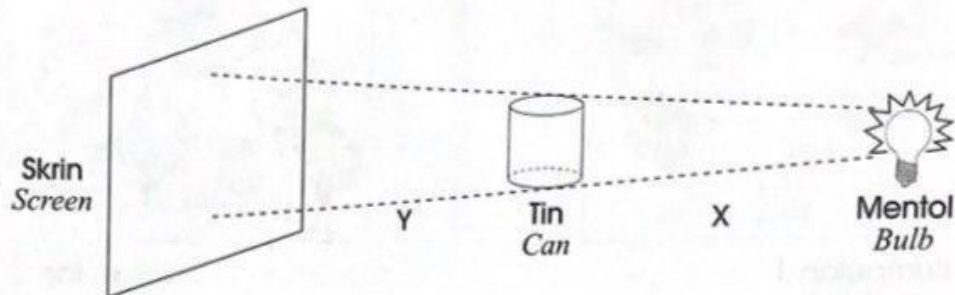
- (a) Nyatakan **satu** pemerhatian bagi eksperimen ini.
State **one** observation for this experiment.
- (b) Berikan **satu** inferens bagi pemerhatian kamu di (a).
Give **one** inference for your observation in (a).
- (c) Apakah yang akan terjadi jika tiada lubang pada kotak?
What would happen if there was no hole in the box?
- (d) Tuliskan inferens berdasarkan jawapan kamu di (c).
Write an inference based on your answer in (c).
- 2 Daun hijau menjalankan proses fotosintesis. Lengkapkan.
Green leaves undergo the process of photosynthesis. Complete it.

Proses fotosintesis
Process of photosynthesis



- 1 Rajah menunjukkan suatu penyiasatan yang dijalankan oleh kumpulan Sains Cekap di dalam kelas.

The diagram shows an investigation conducted by the Science Cekap group in the classroom.



- (a) Lukiskan bayang-bayang tin pada skrin di atas.
Draw the shadow of the can on the screen above.

- (b) Tuliskan pemerhatian kamu jika
Write your observations if

(i) tin itu digerakkan ke X :
the can is moved to X :

(ii) tin itu digerakkan ke Y :
the can is moved to Y :

- 2 Penyiasatan 1 dan 2 menunjukkan sumber cahaya dituju ke arah objek yang sama saiz.
Investigations 1 and 2 show that the light source is directed toward objects of similar size.



- (a) Berdasarkan penyiasatan di atas, nyatakan
Based on the investigation above, state

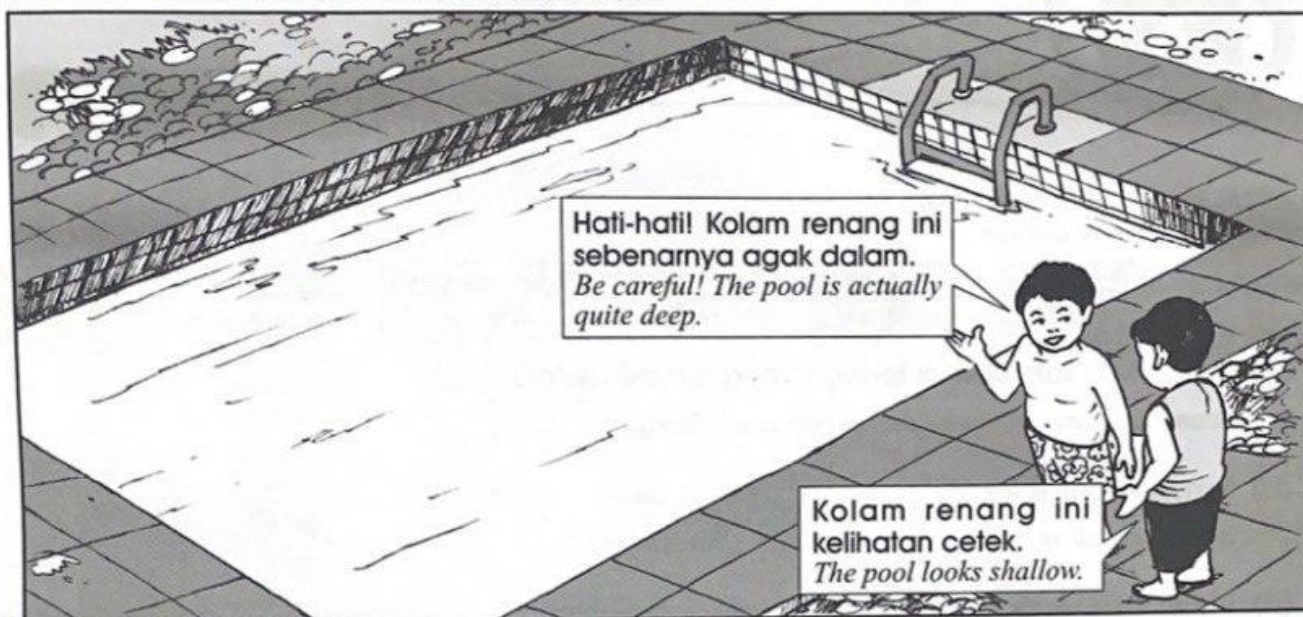
(i) pemboleh ubah dimalarkan
constant variable

(ii) pemboleh ubah yang dimanipulasikan
manipulated variable

(iii) pemboleh ubah yang bergerak balas
responding variable

- (b) Tuliskan hipotesis bagi penyiasatan di atas.
Write the hypothesis for the investigation above.

- 3 Perhatikan rajah di bawah. Teliti dialog mereka.
KBAT Observe the diagram below. Examine their dialogue.



Mengapakah kolam itu kelihatan cetek daripada kedalaman sebenar? Berikan inferens.
 Why does the pool appears shallower than the actual depth? Give an inference.

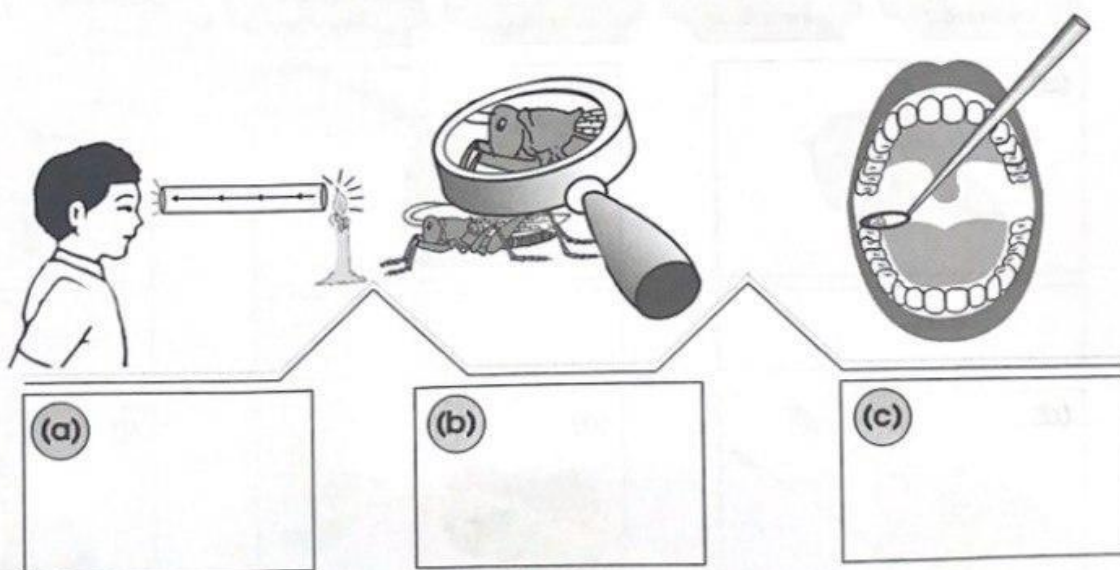
- 4 Arahan : Lengkapkan peta titi dengan mengisi sifat-sifat cahaya berdasarkan rajah yang ditunjukkan.
 Instruction : Complete the bridge map by filling in the properties of light based on the diagram shown.

i - THINK
Peta Pemikiran

PETA TITI
BRIDGE MAP

Rajah
Diagram

Sifat cahaya
Property of
light



1 Isikan jawapan yang betul.
Fill in the correct answer.

semua
all

cecair
liquid

gas
gas

pepejal
solid

dipantulkan
reflected

getaran
vibration

lebih cepat
faster

(a) Bunyi ialah satu bentuk tenaga yang terhasil melalui _____.

Sound is a form of energy that is produced through _____.

(b) Bunyi bergerak ke _____ arah.

Sound travels in _____ directions.

(c) Bunyi bergerak paling cepat dalam medium _____, diikuti medium _____ dan paling perlahan dalam medium _____.

Sound travels fastest in the _____ medium, followed by _____ medium and the slowest in the _____ medium.

(d) Cahaya bergerak _____ daripada bunyi.

Light travels _____ than sound.

(e) Bunyi boleh _____ oleh permukaan yang keras.

Sound can be _____ by hard surfaces.

2 Berikut ialah beberapa alat yang menghasilkan bunyi. Tuliskan cara bunyi dihasilkan.
The following are some tools that produce sound. Write down how sound is produced.

goncangan
shaking

ketukan
knocking

tepukan
clapping

tiupan
blowing

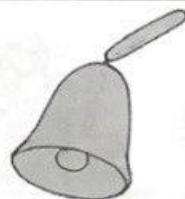
gesekan
bowing

petikan
plucking

(a)



(b)



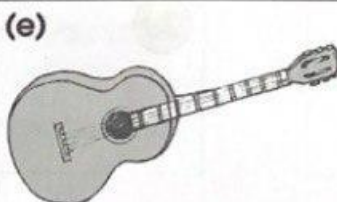
(c)



(d)



(e)



(f)

