

# sila guna huruf kecil semaa menaip jawapan. Gunakan pilihan jawapan yang disediakan.

Lengkapkan laporan penyiasatan yang berikut tentang proses hidup mikroorganisma.  
Complete the following investigation report about the life processes of microorganisms.

TP 2 ARAS R

| Aktiviti / Activity I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Bahan dan radas:</b><br/><b>Material and apparatus:</b><br/>Air suam, yis, gula, kelalang kon, sudu, belon<br/>Lukewarm water, yeast, sugar, conical flask, spoon, balloon</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;">Kelalang kon X      Kelalang kon Y<br/>Conical flask X      Conical flask Y</p>                                                                                                                                                        | <p><b>Langkah / Steps:</b></p> <ol style="list-style-type: none"> <li>Sediakan dua kelalang kon, X dan Y.<br/>Prepare two conical flasks, X and Y.</li> <li>Kelalang kon X mengandungi air suam dan _____.<br/>Conical flask X consists of lukewarm water and _____.</li> <li>Kelalang kon Y mengandungi air suam, _____ dan gula.<br/>Conical flask Y consists of lukewarm water, _____ and sugar.</li> <li>Pasangkan _____ pada setiap kelalang kon dan goncangkan kelalang kon.<br/>Fix a _____ onto each conical flask and shake the flask.</li> <li>Biarkan kedua-dua kelalang kon selama satu jam sebelum membuat pemerhatian.<br/>Leave both conical flasks for one hour before observing.</li> </ol> |
| <p><b>Pemerhatian / Observation:</b></p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;">Kelalang kon X      Kelalang kon Y<br/>Conical flask X      Conical flask Y</p> <ol style="list-style-type: none"> <li>Saiz belon pada kelalang kon X _____.<br/>The size of the balloon on conical flask X _____.</li> <li>Saiz belon pada kelalang kon Y _____ daripada saiz asal.<br/>The size of the balloon on conical flask Y has _____ from the original size.</li> </ol> | <p><b>Inferens / Inference:</b></p> <ol style="list-style-type: none"> <li>Tiada mikroorganisma yang hadir di dalam kelalang kon X.<br/>No microorganisms are present in conical flask X.</li> <li>Yis di dalam kelalang kon Y _____ dan membebaskan _____ yang mengembangkan belon.<br/>The yeast inside the conical flask Y _____ and releases _____, which expands the balloon.</li> </ol> <p><b>Kesimpulan / Conclusion:</b><br/>Mikroorganisma _____.<br/>Microorganisms _____.</p>                                                                                                                                                                                                                     |

Pilihan jawapan :

bernafas / tidak berubah / gas karbon dioksida / bertambah / gula / yis / belon / bernafas

# isi tempat kosong dengan jawapan yang betul . Gunakan huruf kecil semasa menaip.

Tahap Penguasaan TPI, TP2



Isi tempat kosong dengan jawapan yang betul. TP 2

ARAS R

Fill in the blanks with the correct answers.

| Maksud kelajuan / Meaning of speed                                                                                                                                       |                 |                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------|
| Kelajuan ialah ukuran _____ sesuatu objek _____ dari satu tempat ke satu tempat yang lain.<br>Speed is a measurement of _____ an object _____ from one place to another. |                 |                                                                           |
| Unit kelajuan / Unit of speed                                                                                                                                            | Rumus / Formula |                                                                           |
|                                                                                                                                                                          | cm/s            | Kelajuan = $\frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$<br>Speed |
| Meter per saat<br>Metre per second                                                                                                                                       |                 |                                                                           |
|                                                                                                                                                                          | km/j<br>km/h    |                                                                           |



Jadual yang berikut menunjukkan masa yang diambil oleh empat buah kenderaan untuk membuat perjalanan dari Bandar X ke Bandar Y dengan melalui jalan yang sama. The table below shows the time taken by four vehicles to travel from Town X to Town Y by using the same route. TP 1

ARAS R

| Kenderaan<br>Vehicle            | Bas<br>Bus                           | Lori<br>Lorry                        | Kereta<br>Car                        | Van<br>Van       |
|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|------------------|
| Masa yang diambil<br>Time taken | 2 jam 15 minit<br>2 hours 15 minutes | 3 jam 10 minit<br>3 hours 10 minutes | 1 jam 30 minit<br>1 hours 30 minutes | 2 jam<br>2 hours |

- Kenderaan yang mana bergerak paling laju?  
Which vehicle travels the fastest?  
\_\_\_\_\_
- Kenderaan yang mana bergerak paling perlahan?  
Which vehicle travels the slowest?  
\_\_\_\_\_
- Susun kesemua kenderaan itu mengikut urutan kelajuan yang semakin bertambah.  
Arrange all the vehicles according to their speed in ascending order.

