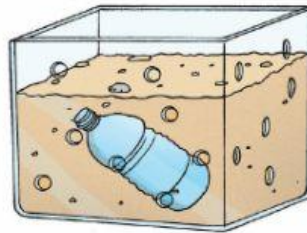
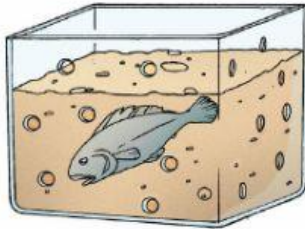




Name: \_\_\_\_\_

Anna and her friends conducted an investigation on two types of waste materials planted in a container filled with soil for 4 weeks.



a) After 4 weeks, what can be observed on the following waste materials:

- i) Fish
- ii) Plastic bottle

b) Choose **one** correct inference based on your observations in (a).

The fish decompose because it is a biodegradable waste material, while the plastic bottle does not decompose because it is a non-biodegradable waste material.

The fish does not decompose because it is a biodegradable waste material, while the plastic bottle decompose because it is a non-biodegradable waste material.

The fish decompose because it is non-biodegradable waste material, while the plastic bottle does not decompose because it is biodegradable waste material.

c) What is the purpose of this experiment?

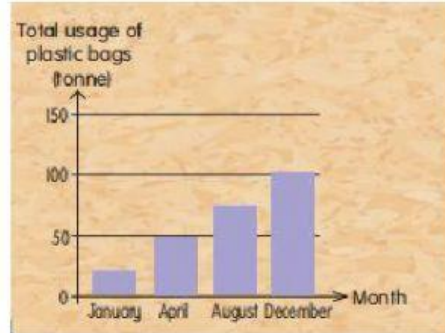
To investigate the relationship between the \_\_\_\_\_ (type/condition) of waste material and \_\_\_\_\_ (type/condition) of waste material after 4 weeks.

d) What conclusion can you make from this investigation ?

\_\_\_\_\_ waste materials can be decayed by microorganisms, while \_\_\_\_\_ waste materials cannot be decayed by microorganisms.



The chart shows the results of an investigation on the total number of plastic bags used in city A.



a) State the information collected in this investigation.

The total number of plastic bags used in January, April, August and December.

The use of plastic bags in four months.

The total usage of plastic bags in one year.

b) Write a statement to relate the two information in (a).

As the \_\_\_\_\_ (month/plastic bag) progresses, the usage of plastic bags \_\_\_\_\_ (increases/decreases).

c) Tick the bad impacts on city a due to the change in the pattern shown.

Pleasant view

Clogged drains

Occurrence of flash flood

d) Tick one inference to explain the change in the number of plastic bags used from January to December.

The residents of city A recycle plastic bags.

The residents of city A do not recycle plastic bags.

**The number of dengue cases in city A is influenced by the amount of waste materials produced by residents.**

e) Make a hypothesis based on the above statement.

As the amount of \_\_\_\_\_ increases, the number of dengue cases in city A \_\_\_\_\_.