

Name:

Class:



Describe a test to show a sample of food contains reducing sugars.

Test: add some Benedict's solution to the sample and heat the mixture.

Result: A colour change will be seen. Accept red or brick red.

Describe a test to show a sample of food contains lipids.

Test: add some ethanol solution to the sample and shake the mixture.

Result: A white emulsion will be seen.

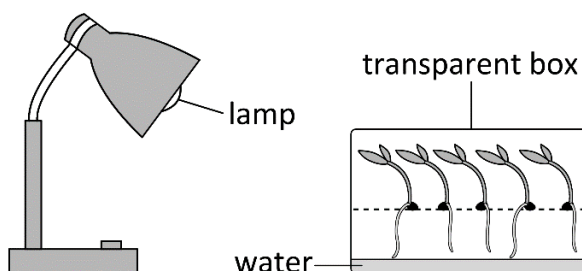
What does DNA stand for?

Deoxyribonucleic acid

What does ADH stand for?

Anti-diuretic hormone

In an investigation a pair of students grew cress seeds in a transparent box. The students directed light from a lamp on to one side of the box as shown in the figure.



i. What tropism is being shown by the stems of the cress seedlings?

Positive phototropism

ii. What tropism is being shown by the roots of the cress seedlings?

Positive geotropism or positive gravitropism

iii. Explain what caused the seedling shoots to grow in the way shown in the figure above.

An explanation to include all of the following:

- Auxins
- These gather on the side not facing the stimulus.
- This causes cell elongation in that area and the plant bends towards the stimulus.

iv. What is the advantage to the cress seedlings of the response to light shown above?

The plant receives more light and therefore photosynthesises more.

What is the role of luteinising hormone?

Causes ovulation

Where is adrenaline produced?

The adrenal glands