

BGE Photosynthesis & Food Production Homework 1



Name: _____

Mark _____%

Comment: _____

1. Name the process used by green plants to make food. (1)

2. Name the TWO raw materials used by plants to make food. (1)

3. What kind of food do green plants MAKE? (1)

4. What kind of food do green plants STORE? (1)

5. What other useful product do green plants produce? (1)

6. Plants need energy to make food.
Where does this energy come from and how do the plants capture it? (1)

7. The following are the steps involved in testing a leaf for starch.
NUMBER the steps to show the correct order.

Boil the leaf in alcohol
Add a few drops of iodine to the leaf
Boil the leaf in water
Switch off the Bunsen
Rinse the leaf in cold water to soften (1)

8. A pupil covered a green and white leaf with a piece of black paper and left it in the light.



Colour the third diagram to show what the leaf would look like after iodine was added. (1)

9. Plants are important to humans in different ways. Many plants like rice, soya and wheat are valuable sources of food. Other plants are important raw materials used for making a range of useful products. Timber is used for building, flax is used to produce cloth and sugar cane can be used to produce biofuel. Plants are also a source of medicines. Antibiotics are produced by the penicillium fungus, heart drugs have been extracted from foxgloves and the Rosy Periwinkle contains a drug used to treat cancer.

Use the above information to complete the table below: (2)

Raw materials		
	soya	
		Rosy Periwinkle

10. Four identical small greenhouses were planted with equal numbers of the same species of cucumber. The mass of cucumber from each greenhouse was measured and the results shown in the table.

Greenhouse	Mass of cucumber (g)
A	48
B	52
C	56
D	44

- A) Calculate the average mass of cucumbers in the greenhouse.

_____ (g) (1)

- B) Plants need carbon dioxide to carry out photosynthesis. Predict what would happen to the mass of cucumber if additional carbon dioxide was provided in the greenhouses.

(1)