Manufacture of food by plants -

Def -

Equation –

Main raw materials -

1. 

2. 

Site of photosynthesis - ____________________________ -

Adaptation of leaves

Structure of chloroplast

Green pigment- ______________________

Yellowish pigment in leaves __________. This pigment develops because of __________________

The mechanism of fertilization-
The light reaction-
Other names-
The reactions-
1.

2.
3.

4.

Dark reaction-
Other names-
Factors affecting photosynthesis-

External -

1.

2.

3.

4.

Internal factors-

1.

2.

Law of limiting factors-
Experiments-

**TO SHOW THAT CHLOROPHYLL IS NECESSARY FOR PHOTOSYNTHESIS**

(A variegated geranium leaf)

(a) variegated leaf before

(b) after testing for starch

http://elateafrica.org/elate/biology/nutrition/worksheet2.jpg

**EXPERIMENT TO FIND OUT IF LIGHT IS NECESSARY FOR PHOTOSYNTHESIS**

http://elateafrica.org/elate/biology/nutrition/worksheet2_0.jpg
CARBON DIOXIDE IS NECESSARY FOR PHOTOSYNTHESIS

Soda lime prevents entry of CO₂

Well watered potted plant

Polythene bag tied over the pot to prevent escape of carbon dioxide from soil

NaOH solution

Sunlight

Bell jar

TO SHOW THAT OXYGEN IS GIVEN OFF DURING PHOTOSYNTHESIS

Light

Bubbles of gas collection

Inverted test tube

Beaker

Inverted filter funnel

Water contains NaHCO₃ providing more CO₂

Support to keep Funnel off bottom

http://elateafrica.org/elate/biology/nutrition/photosynthesis2.jpg