

Memorandum

Natural Sciences Grade 8 / Natuurwetenskappe Graad 8

Practical task / Investigation (1) / Praktiese taak / Onderzoek (1)

Topic: Photosynthesis / Onderwerp: Fotosintese

**MEMORANDUM:**

**Questions / Vrae:**

1. Do not put the beaker with ethanol near or on an open flame because it will catch fire. ✓  
Before working with chemicals, put on your safety goggles. ✓  
Point the beaker containing ethanol away from your face and other people's faces. ✓  
Take care as the beaker can become very hot. ✓ (ANY TWO / ENIGE TWEE) (2)
2. X = ethanol/alcohol/methylated spirits / *etanol / alcohol / brandspiritus* ✓ (1)  
Y = test tube / *proefbuis* ✓ (1)
3. A stove instead of the bunsen burner. A pot instead of a beaker. A glass coffee mug instead of a test tube. (3)
4. Iodine solution / *Jodiumoplossing* ✓ (1)
5. The leaf changes colour from a pale white colour to blue-black. / Die blaar verander van kleur van 'n ligte wit kleur na blou-swart ✓  
  
This means that starch is present in the leaf. / Dit beteken dat stysel in die blaar teenwoordig is. ✓ (2)
6. To break down the cell walls and stop chemical reactions. / *Om die selwande af te breek.* ✓  
To remove the waxy cuticle from the leaf. / *Om die wasagtige kutikula van die blaar te verwyder.* ✓ (ANY ONE / ENIGE EEN) (1)
7. No, ✓ it is highly flammable. ✓ / *Nee, ✓ dit is hoogs vlambaar.* ✓ (2)
8. In a water bath. ✓ / *In 'n waterbad.* ✓ (1)
9. To extract chlorophyll from the leaves. ✓  
*Om die chlorofil uit die blare te onttrek.* ✓ (1)
10. The leaf is white/ colourless. ✓  
It will not be possible to clearly observe the colour change of the iodine solution if the leaf still contains green chlorophyll. ✓

# Phototropism Practical Memo

**N Colangelo**



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