Memorandum

Natural Sciences Grade 8 / Natuurwetenskappe Graad 8

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

Topic: Photosynthesis / Onderwerp: Fotosintese

#### MEMORANDUM:

#### Questions / Vrae:

1.	Do not put the beaker with ethanol near or on an open flame because it we catch fire.	ill
	Before working with chemicals, put on your safety goggles. ✓	
	Point the beaker containing ethanol away from your face and other people	o's
	faces. ✓ Take care as the beaker can become very hot. ✓ (ANY TWO / EN/GE TW	omen.
	Take care as the beaker can become very not. • (ANT TWO / EMIGE / W	(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.	lodine solution / Jodlumoplossing ✓	(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 teenwoordig is. <	blaar (2)
6.	o 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,
- 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**

**Yi-Tong Ma** 

Phototropism Practical Memo: NASA Technical Memorandum ,1987

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