

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. ✓

Photosynthesis Practical Memorandum

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Photosynthesis Practical Memorandum:

NASA Technical Memorandum ,1984 **Photosynthesis** Zvy Dubinsky,2013-06-12 Among the myriads of volumes dedicated to various aspects of photosynthesis the current one is singular in integrating an update of the most recent insights on this most important biological process in the biosphere While photosynthesis fuels all the life supporting processes and activities of all living creatures on Earth from bacteria though mankind it also created in the first place our life supporting oxygenic atmosphere and keeps maintaining it This volume is organized in four sections I Mechanisms II Stress effects III Methods and IV Applications *Water Resources Research. Memorandum of the Chairman ... Transmitting Reports of Federal Department* United States. Congress. Senate. Interior and Insular Affairs,1962 **Practical Guidelines for the Analysis of Seawater** Oliver Wurl,2009-06-09 As we discover more about the role of the ocean in global changes and identify the effects of global change on the ocean understanding its chemical composition and processes becomes increasingly paramount However understanding these processes requires a wide range of measurements in the vast ocean from the sea surface to deep ocean trenches fr **NOAA Technical Memorandum ERL MESA.** United States. National Oceanic and Atmospheric Administration,1979 **NOAA Technical Memorandum ERL MESA.** ,1979 **Photosynthesis Bibliography** Zdenek Sesták,J. Catský,2012-12-06 *Trinity River Project, Project Memorandum No.4, GDM* ,1981 *Preliminary Reports, Memoranda and Technical Notes of the Materials Research Council Summer Conference* Materials Research Council. Summer Conference,1973 **Technical Memorandum** Coastal Engineering Research Center (U.S.),1972 **Technical Memorandum - U.S. Army Corps of Engineers, Coastal Engineering Research Center** Coastal Engineering Research Center (U.S.),1964 Preliminary Reports, Memoranda and Technical Notes of the Materials Research Council Summer Conference, La Jolla, California, July 1973: Proceedings of the discussion group on solar energy conversion ,1973 **The Second SeaWiFS HPLC Analysis Round-robin Experiment (SeaHARRE-2)** ,2005 **Scientific and Technical Aerospace Reports** ,1994 Life in Space Maura Phillips Mackowski,2022-05-24 This book explores the many aspects and outcomes of NASA s research in life sciences a little understood endeavor that has often been overlooked in histories of the space agency *Energy Research Abstracts* ,1987 Verbatim Record of the Proceedings United States. Temporary National Economic Committee,1940 **Water Resources Research** United States. Congress. Senate. Committee on Interior and Insular Affairs,1962 **U.S. Government Research Reports** ,1963 **Nuclear Science Abstracts** ,1971 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations

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