

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

**RJ Alexander**



## **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

References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

The Top Books of the Year Photosynthesis Practical Memorandum The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. Photosynthesis Practical Memorandum : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Photosynthesis Practical Memorandum : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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