



**NATURAL SCIENCES
TERM 1 PRACTICAL TASK (2023)**

**GRADE 8
TOTAL MARK: 20**

MEMORANDUM

Please note:

- The table does not count marks since it is part of the background knowledge.
- The hypothesis also does not count marks because the teacher can assist the learners in writing down the hypothesis. The hypothesis is tested (accepted or rejected) in question 2.7 for one mark.

	Colour-change of iodine solution	Conclusion
POTATO	The iodine solution turns purple to blue-black.	Potato contains starch.
ONION	The iodine solution does not change colour and remains yellowish-brown.	Onion does not contain starch.

HYPOTHESIS:

The green parts of a variegated leaf will photosynthesise and produce starch while the white parts of the leaf will not photosynthesise and will not produce starch.

QUESTION 1

- 1.1 To breaks the cell walls✓ (to make the cell permeable). (1)
- 1.2 The whole leaf was cream / white / yellowish. ✓ (1)
- 1.3 Green.✓ (1)
- 1.4 To be able to easily observe the results for the test of starch in the leaf. ✓
(If the leave stays green, it will be difficult to see if the colour of the iodine solution changes to blue-black or remain brownish.) (1)
- 1.5 The bunsen burner flame was put out / turned down before the ethanol was poured into the test tube. ✓
A water bath was used to boil the leaf in the ethanol. ✓ (2)
- 1.6 Ethanol is highly flammable / ignites very easily.✓ (1)
- 1.7 To make the (hard / brittle) leaf soft again✓ to make it possible to spread it out on the white tile. (1)
- 1.8 Use a pair of tongs / tweezers to handle the leaf. ✓
Wear safety goggles✓ (and protective clothing). (2)
- [10]**

Memorandum Plife Science Grade12014

Minjie Lin



Memorandum Plife Science Grade12014:

Monthly Catalog of United States Government Publications ,1994 **Monthly Catalogue, United States Public Documents** ,1995-12 Debating Modern Medical Technologies Karen J. Maschke,Michael K. Gusmano,2018-09-14 This book analyzes policy fights about what counts as good evidence of safety and effectiveness when it comes to new health care technologies in the United States and what political decisions mean for patients and doctors Medical technologies often promise to extend and improve quality of life but come with many questions Are they safe and effective Are they worth the cost When should they be allowed on the market and when should Medicare Medicaid and private insurance companies be required to pay for drugs devices and diagnostic tests Using case studies of disputes about the value of mammography screening genetic testing for disease risk brain imaging technologies to detect biomarkers associated with Alzheimer s disease cell based therapies and new expensive drugs Maschke and Gusmano illustrate how scientific disagreements about what counts as good evidence of safety and effectiveness are often swept up in partisan fights over health care reform and battles among insurance and health care companies physicians and patient advocates Debating Modern Medical Technologies The Politics of Safety Effectiveness and Patient Access reveals stakeholders differing values and interests regarding patient choice physician autonomy risk assessment government intervention in medicine and technology assessment and scientific innovation as a driver of national and global economies It will help readers to understand the nature and complexity of past and current policy disagreements and their effects on patients *Congressional Record* United States. Congress,2012 Ohio Practical Farmer ,1877 **National Union Catalog** ,1972 Includes entries for maps and atlases

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