



2021 Sec 4 IP Physics
Term 2 WA Assessment

Name: () Class: 4/ Date:

Term 2 WA – Individual Performance Task [20 marks - 10% of overall]

1. Learning Outcome

Students are able to understand and explain a challenging Physics concept(s), phenomenon or problem

2. Task

- Choose a suitable Physics concept(s), phenomenon or problem that is challenging for you or your peers.
- Use any suitable mode of presentation or medium to explain this item in a way that helps your peers develop a sound understanding of it.

3. Guidelines

- **Choice of Physics topic:**
 - Choose Sec 3 topic(s) or Sec 4 topic(s) (up to and including **Chapter 16 Practical Electricity**)
- **Choice of Physics concept(s), phenomenon or problem:**
 - Something that is challenging and you or your peers have difficulty in understanding. This may be a problem that you faced in the past, or something you are currently struggling with.
 - **Examples:**
 - the use of sign convention in kinematics
 - the effect of pressure changes in a liquid or gas
 - the dynamics involved in a moving lift
 - the language involved in describing electrostatics phenomena

- **Choice of mode of presentation/medium:**

- Choose any suitable mode of presentation or medium that
 - allows you to be creative in communicating your ideas and
 - is effective to help your peers develop a sound understanding of the concept(s), phenomenon or problem

- **Examples** of mode of presentation/medium (*not an exhaustive list*):

<ul style="list-style-type: none"> • animation, video clip, podcast (maximum 3 minutes) 	<ul style="list-style-type: none"> • poster or infographic
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- For text-based submissions: use Arial font size 12, maximum two A4 pages, submit as PDF file.

4. Rubrics

Criteria	Max. Marks	Exceeds Expectations	Meets Expectations	Partially Meets Expectations	Barely Meets Expectations
Score:		4	3	2	1
Knowledge	4	Comprehensive coverage of all relevant main ideas	Coverage of most relevant ideas	Coverage of some relevant ideas	Coverage of few relevant ideas
Accuracy	4	All Physics ideas are accurate	Most Physics ideas are accurate	Some Physics ideas are accurate	Few Physics ideas are accurate
Clarity of Explanation	4	All explanations are clear and logical	Most explanations are clear and logical	Some explanations are clear or logical	Few explanations are clear or logical
Creativity <i>(Brookhart, 2013)</i>	4	Created product is interesting, new, or helpful, making an original contribution that includes identifying a previously unknown way of <u>helping your peers develop a sound understanding of the concept(s), phenomenon or problem.</u>	Created product is interesting, new, or helpful, making an original contribution for its intended purpose of <u>helping your peers develop a sound understanding of the concept(s), phenomenon or problem.</u>	Created product serves its intended purpose of <u>helping your peers develop a sound understanding of the concept(s), phenomenon or problem.</u>	Created product does not serve its intended purpose of <u>helping your peers develop a sound understanding of the concept(s), phenomenon or problem.</u>
References	3		All references were properly cited in APA style.	All references are cited but with some errors in citation style	Some references are not cited, or with errors in citation style
Submission	1	<ul style="list-style-type: none"> • Punctual • Adheres to the required maximum timing or length of submission 			
TOTAL	20				

- Reference sources of ideas are to be cited using APA format.
- Example of resource: <https://www.scribbr.com/apa-citation-generator/>

5. Schedule (Term 2)

Week/Date	Stage	Process
3	<ul style="list-style-type: none">Release of WA3	<ul style="list-style-type: none">Release of WA3 requirements
4	<ul style="list-style-type: none">Proposals	<ul style="list-style-type: none">Students to submit proposals to their Physics teachers for approval
4 to 6		<ul style="list-style-type: none">Work on a draft of WA
6 to 7	<ul style="list-style-type: none">Peer feedbackTeacher feedback	<ul style="list-style-type: none">Students to provide feedback on the draft of a classmate.
End week 8 Friday 14 May 2359h	<ul style="list-style-type: none">Final submission	<ul style="list-style-type: none">Submission of final WA to Physics teacher via Google Classroom or other digital means.

- **Penalties for Late Submission:**

WA task submitted **after the deadline** (Friday, 14 May):

- within **3 calendar days** (15 to 17 May): **deduction of 20%** of your marks
- after **17 May** - **no mark** will be awarded.

6. Proposal Format

- Physics topic(s) involved
- Specific concept(s) or phenomenon or problem to be explained
- Description of how this topic is challenging for you / your peers
- Mode/medium to be used
- Outline of content to be presented
- At least 2 references from preliminary research

7. Peer feedback guidelines

- Each student would be randomly assigned another classmate to provide feedback on her draft of the individual performance task.
- Feedback on the draft should be based on the **criteria given in the rubrics:**
 - Knowledge, Accuracy and Clarity of Explanation
 - Creativity
 - References

 - Specify the **strengths** and any **areas for improvement** of the draft
 - A template would be provided later.

Reference:

- Educational Technology Division (ETD). (2018, November). *Toolkit for Baseline ICT Standards - New Media Literacies*. Ministry of Education (MOE).
<https://drive.google.com/file/d/1A2pOe03pofCblpMGFaLSNIAtrI8WMjTc/view>
- Brookhart, S. M. (2013, February). *Assessing Creativity - Educational Leadership*.
<http://www.ascd.org/publications/educational-leadership/feb13/vol70/num05/Assessing-Creativity.aspx>