IB PHYSICS - 1
Name:
Period: Date:



SUPPLEMENTAL READING ACTIVITY

All handouts referenced in this assignment are posted on ManageBac in the "Internal Investigation" unit. This assignment, as well as all assignments relating to the IA, must be typed and uploaded to ManageBac. Read the handout "Devil Physics IA Grading Form" on ManageBac and answer the following questions:				
			1.	This is the form I will use to grade the rough draft and final draft of your IA. What are the two main sections of this form?
				d the handout "Effective Citing and Referencing" on ManageBac and answer the following stions:
2.	What should you do if you are not sure whether material is considered basic or common knowledge within a field or subject?			
3.	"When we acknowledge the use of materials or ideas that are not ours, the reader must be able to clearly distinguish between			
4.	What are the three main types of in-text citation?			
5.	What style guide does the IB endorse?			
6.	For physics IA's, are the list of references given on a 'Bibliography' page, a 'Reference' page, or a 'Works Cited' page?			
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Errors And Uncertainties In Physics handout. Read the 13-page handout and reflect on how it will personally increase your individual adherence to the IB Learner Profile in the context of worldmindedness. Do so in the form of a TOK question.

Rea	ad the hand	lout "Guidance on IA Length" on ManageBac and answer the following questions:
7.	What happ	pens if the final report exceeds 12 pages but is relevant and concise?
8.	What happ	pens if the final report exceeds 12 pages and is NOT relevant and concise?
Rea	nd the hand	lout "How Do I Interpret R-Squared" on ManageBac and answer the following questions:
9.	What Is R	-squared?
10.	important response v in the response v	-squared value is low but you have statistically significant predictors, you can still draw conclusions about how changes in the predictor values are associated with changes in the value. Regardless of the R-squared, the significant coefficients still represent the mean change ponse for one unit of change in the predictor while holding other predictors in the model Obviously, this type of information can be extremely valuable. However, a low R-squared is
	most prob	lematic when
foll		lout "How to Avoid Colloquial (Informal) Writing" on ManageBac and answer the stions. Make sure you really read this because science types tend to not be very good
11.	From the 1	list, write down the three types of errors you most frequently make and that you pinky-swear
	you will a	void on your IA:
	a.	
	b.	
	2	
	c.	

que	iuestions:		
	Who marks work for external and internal assessments?		
13.	The approach to assessment used by the IB is criterion-related, not norm-referenced. What the heck does criterion-related mean?		
14.	What do assessment objectives describe?		
15.	What do assessment criteria describe?		
16.	What do markbands represent?		
17.	What are analytic markschemes prepared for?		
	What is the overall weighting (%) of the Internal Assessment for SL and HL? In Paper 3, what does Section A consist of?		
20.	In Paper 3, what does Section B consist of?		
21.	In terms of the Purpose of the Internal Assessment, what does it enable students to demonstrate without the time limitations and other constraints associated with written examinations?		
	How do the internal assessment <i>requirements</i> differ between HL and SL? It is the teacher's responsibility to ensure that students are familiar with: a.		

Read the handout "IA Guidance from IB Physics Guide" on ManageBac and answer the following

	b.	
	c.	
4. H	How many	y drafts of the IA are teachers allowed to read and give advice on?
5. W	What assis	stance <i>should</i> the teacher provide and what assistance <i>are they not</i> to provide?
_		
6. A	All work s	submitted to the IB for moderation or assessment must be
_		
_		
7. C	Can the sa	ame piece of work be submitted for both an internal assessment and an extended essay?
8. V	What does	s a "best-fit approach" mean?
_		
_		
9. H	How do th	ne internal assessment <i>criteria</i> differ between HL and SL?
0. (True or F	Talse) In order for a mark to be awarded, every single aspect of a level descriptor must be met
_		
1. (True or I	False) A student who attains a low achievement level for one criteria should be similarly
n	narked fo	r all criteria.
2. H	How mucl	h time should the IA take to complete?
3. H	How many	y pages should the IA cover?
4. V	What will	happen if you exceed this length?
_		
_		
5. W	What drug	g(s) was the guy taking when he said that it will only take 10 hours?
_		
6. V	What are t	the possible tasks that can be accomplished in the IA:
	a.	
	b.	
	c.	
	d.	
	c.	

	e
37.	What are the five assessment criteria, how many points and what percentage of points are accorded to
	each?
	a
	b
	c
	d
	e
38.	True or False) The criterion Personal Engagement can only be evaluated after you have set a wedding date.
	exploration and <i>makes it their own</i> . What things could one have to address in order to allow the grade to recognize personal engagement through different attributes and skills? (stop whining and just copy the last two lines of the paragraph)
40	Remember, Make It Your Own What does the criterion Exploration assess?
41.	What awarenesses are also assessed under Exploration, where appropriate?
42.	An evaluator determines the following descriptors are most appropriate for a student's Exploration:

- - a. The report shows evidence of limited awareness of the significant safety, ethical or environmental issues that are relevant to the methodology of the investigation.
 - b. The topic of the investigation is identified and a relevant but not fully focused research question is described.
 - c. The background information provided for the investigation is mainly appropriate and relevant and aids the understanding of the context of the investigation.

	but has limitations since it takes into consideration only some of the significant factors that may influence the relevance, reliability and sufficiency of the collected data.
	What is the most appropriate mark to award for Exploration?
43.	What does the criterion Analysis assess?
44.	What does the criterion Evaluation assess?
45.	What does the criterion Communication assess?
of t	en the handout "Misc IA Guidance" on ManageBack. Skip ahead to page 7, "Guidance for the use he internal assessment criteria". Start reading and answering questions again
	sonal Engagement
46.	Read the section on Personal Engagement. Summarize the intent of this section in your own words
Exp	oloration
47.	The information given must be targeted at the problem rather than
	in order to
48.	Why must the data be of sufficient quantity and treatable in an appropriate manner?

d. The methodology of the investigation is mainly appropriate to address the research question

Ana	alysis
49.	What must the drawn conclusions be based on?
50.	What happens if the variability of the data leads to a tentative conclusion?
51.	The variability should be demonstrated and
Eva	lluation
52.	In terms of a conclusion, what differentiates the Evaluation from the Analysis?
53.	Variability of the data will also lead into an assessment of
Coı	nmunication
54.	Overall, the primary consideration in this area is that the report should be focused and clear so that the reader does not have to go back and re-read it. Nuf sed.
55.	What are the expected subject-specific conventions?
Rea	ad the handout "Significant Digits" on ManageBac and answer the following questions:
56.	The number of significant digits in the output should equal
	nd the handout "Tsokos Internal Assessment Guidance" on ManageBac and answer the following stions:
57.	Descriptively summarize the five different investigation types: a. Hands-on investigation:

	b.	Modeling and spreadsheet
	0	Databasa invastigations:
	c.	Database investigations:
	d.	Computer-simulation investigations:
		,
	e.	Hybrid investigations:
58.	Wł	nat is the content of the final presentation?
59.	Wł	nat does it mean when it says, "You are also responsible for your own time management."?
60.	Fin	ally, you should have
	W 1 AW 1 AW 1 A	
Rea	d th	ne handout "Using Excel for Lab Reports" on ManageBac and answer the following questions:
61.	Lis	t one thing you learned from reading this handout.
62.	Wł	nat does the handout have to say about 'Saving Your Work'?