YEAR 12 PHYSICS DEPTH STUDY

NAME: _____

QUESTION: How will Physics change the future?

TOPIC: _____

What is required in my depth study?

You will need to choose a topic to perform your depth study on that addresses the question; "*How will Physics change the future?*" You should identify a topic that you are interested in learning about and trying to link it to the question. You will have to conduct research and create a presentation that answers the **question based on your topic.**

Once you have identified your inquiry question, you should plan your investigation. For this task, consider the following:

- What is the focus of my question?
- > What are the key points that stem from this focus?
- > What information will I need to research and collate?
- > How should the information be structured to maximise the cohesion and progression?
- > What is the timeframe to complete the task/s required?

Once you are adequately prepared to conduct the investigation, you should begin the investigation as soon as possible. It is common for you to have an epiphany and change things as you go as you discover new things and process the information. Allowing yourself the time to develop your understanding will improve your outcomes but, more importantly, it will improve you as a thinker and learner.

You will need to critically analyse your information and figure out how to present the information effectively. This is time consuming and can be very frustrating. You should make time to discuss your ideas with your peers, teacher and family members. This will provide insight about what you know and how well you know it.

The depth study will need to be presented for marking. The presentation method is of your own choosing. This could include reports, Powerpoints, Prezis, posters, speeches, videos, etc. Think about how you want your audience to engage with your content to arrive at your conclusion. Also make sure you include your reference list for your sources of information. Referencing sites such as citethisforme.com are handy to use to correctly reference every time. In your presentation, you will need to introduce the question, explain your topic, outline the key points and explain how they relate to each other to provide a clear answer to your question.

You are also required to write a reflection. The reflection needs to address the following:

- Describe what you learnt by doing the depth study.
- Describe the difficulties you had and how you overcome them to complete your depth study.
- Evaluate the quality of your information.
- Describe what would you do differently next time.
- Identify the best part about your depth study.

At all times, consult with your teacher with any ideas or questions. Collaboration will be your biggest strength in this task and honest feedback will be the biggest key to success and growth.

Content:

Criteria	Mark
 The depth study successfully addresses all of the following points: The topic is clearly stated The focus of the question and all necessary key points of the question are clearly identified The key points are explicitly explained in a high degree of detail with a deep level of understanding The connections between ideas are clearly communicated The key points are linked skilfully to create a free-flowing progression of ideas All key points are summarised to generate a detailed and explicit answer to the question Appropriate diagrams, tables and/or graphs are used to assist in the presentation of the information A reference list is included with all sources being referenced in an appropriate format 	18 – 20
 The depth study successfully addresses most of the following points: The topic is clearly stated The focus of the question and all necessary key points of the question are clearly identified The key points are explicitly explained in a high degree of detail with a deep level of understanding The connections between ideas are clearly communicated The key points are linked skilfully to create a free-flowing progression of ideas All key points are summarised to generate a detailed and explicit answer to the question Appropriate diagrams, tables and/or graphs are used to assist in the presentation of the information A reference list is included with all sources being referenced in an appropriate format 	14 - 17
 The depth study successfully addresses some of the following points: The topic is clearly stated The focus of the question and all necessary key points of the question are clearly identified The key points are explicitly explained in a high degree of detail with a deep level of understanding The connections between ideas are clearly communicated The key points are linked skilfully to create a free-flowing progression of ideas All key points are summarised to generate a detailed and explicit answer to the question Appropriate diagrams, tables and/or graphs are used to assist in the presentation of the information A reference list is included with all sources being referenced in an appropriate format 	10 - 13
 The depth study successfully addresses aspects of most of the following points: The topic is clearly stated Some of the key points of the question are clearly identified The key points are explained with some detail The connections between ideas are alluded to There is a progression of ideas An answer to the question is described using evidence from the presentation Appropriate diagrams, tables and/or graphs are used to assist in the presentation of the information A reference list is included 	5 – 9
 The depth study successfully addresses some of the following points: The topic is clearly stated Some of the key points of the question are clearly identified The key points are explained with some detail The connections between ideas are alluded to There is a progression of ideas An answer to the question is described using evidence from the presentation Appropriate diagrams, tables and/or graphs are used to assist in the presentation of the information A reference list is included 	1-4

Reflection:

Criteria	Mark
The reflection successfully addresses all or most of the following:	
 A clear and concise description of what the student learnt during the experience 	
 A detailed description of the issues and a clear explanation of how they were overcome 	
 A detailed evaluation of the sources and quality of information, supported by evidence 	4 – 5
 A clear and concise description of what the student would do differently 	
 A clear and concise description of what the student would do uncertainly A clear and concise statement about what the best part of the depth study was for the student 	
The reflection successfully addresses some of the following:	
 A clear and concise description of what the student learnt during the experience 	
 A detailed description of the issues and a clear explanation of how they were overcome 	
• A detailed evaluation of the sources and quality of information, supported by evidence	2 – 3
A clear and concise description of what the student would do differently	
• A clear and concise statement about what the best part of the depth study was for the student	
The reflection successfully addresses a few of the following:	
• A clear and concise description of what the student learnt during the experience	
• A detailed description of the issues and a clear explanation of how they were overcome	
• A detailed evaluation of the sources and quality of information, supported by evidence	1
 A clear and concise description of what the student would do differently 	
 A clear and concise statement about what the best part of the depth study was for the student 	

Mark Total

Section	Mark
Content	/20
Reflection	/5
Total	/25
	%

Feedback

Content:	
Reflection:	