**TASG YMCHWIL BAGLORIAETH.**

**Dilynwch y cyfarwyddiadau isod er mwyn paratoi cyflwyniad ar gyfer ei asesu ar gyfer eich Bagloriaeth – Cyfathrebu.**

**Wave-particle nature of**

**Light and Matter**

**WHAT IT’S ABOUT**

**You are going to make a presentation to the group and produce a research document to be issued to them.**

This activity will help you to:

a) Develop your knowledge and understanding of the wave-particle nature of light and matter

b) Develop your understanding of the historical debate into the uncertainty of the nature of light and matter

c) Generate opportunities for key skills evidence for your portfolio in Communication.

**WHAT YOU WILL DO**

You will be provided with a time line, a list of suggested text resources and a list of suggested Internet resources. You will carry out research into the wave-particle nature of light and matter. The time line details some of the important scientists and their discoveries associated with the nature of light and matter. You will be allocated one scientist and you will research in detail the part that he (all the scientists listed were male) played in the debate about the wave-particle nature of light and matter.

◗ **Using this research you will:**

– make a presentation to the group using the evidence which your scientist discovered and how it affects the modern debate

– produce a research document about your scientist’s contribution to the debate, to give out to the group.

**◗ Your research should:**

– include a variety of resources, which could include text, Internet and CD-ROM

– be ‘logged’ using your ‘Computer use log’ and ‘Resources use log’.

**◗ Your presentation should:**

– include diagrams, illustrations and pictures, and could use OHTs and slides

– last 5–10 minutes.

**◗ Your research document should:**

– detail the historical evidence for the wave-particle nature of light and matter

– include relevant diagrams and illustrations

– be three sides of A4.

◗ Your research document could be word-processed.

**RESOURCE D: SUGGESTED INTERNET RESOURCES**

http://physicsweb.org/TIPTOP/

http://physicsweb.org/resources/search.phtml

http://www.iop.org/

http://www.mth.uea.ac.uk/VL/Physics.html

http://www.pparc.ac.uk/index.htm

http://www.physlink.com/

<http://www.physics.isu.edu/radinf/cover.htm>

**Amser : 2 wythnos –**

**cyflwyniadau i’w cynnal ar Ddydd Llun, Mawrth 30ain 2009.**