BACKGROUND

Two major discoveries shook the world of physics in the early part of the 20th century. One was the Special Theory of Relativity. The other was the Quantum Theory. Both theories led to significant changes in how we look at the physical world.

The Special Theory of Relativity was the sole creation of one man, Albert Einstein, in a single year, 1905. The Quantum Theory developed more slowly, over a period of 30 years, and was based on work contributed by many scientists (see list below). It began in the 1890s with studies of "blackbody" radiation, and reached its climax in the theory of quantum mechanics, used by Heisenberg and Schrödinger in the 1920s to explain the behaviour of electrons in atoms.

- Neils Bohr
- Lawrence Bragg (& Max von Laue)
- Louis de Broglie
- Arthur Compton
- Clinton Davisson (& Lester Germer)
- Albert Einstein
- James Franck (& Gustav Hertz)
- Werner Heisenberg*
- Heinrich Hertz
- Gustav Kirchhoff
- Philipp Lenard
- Robert Millikan
- Wolfgang Pauli
- Max Planck
- Ernest Rutherford
- Erwin Schrödinger

ASSIGNMENT

In this century our understanding of the behaviour of energy and matter has been irrevocably altered by the quantum theory. As such, you and a partner are to make a "Wanted Poster" of one of the scientists listed above (visualize the old fashioned wanted posters from westerns). The poster should include the following information:

Biographical information

- Photo
- Date & Place of birth/death(?)
- Educational background
- Early interest in science
- Interesting fact(s) about
- Written work
- Awards

Research information

- Area of study
- Major experiment(s)
- Brief explanation of experiment(s)
- Significance of results

NOTE

① The info is to be presented in point form with the aid of the headings listed.

② The info must be typed, grammatically and phonetically correct, and be neat and easy to read.

NAME(S): SCIENTIST(S):	
BIOGRAPHICAL INFORMATION	
• Photo	0 + 1
• Date & Place of Birth/Death(?)	0 + 1 + 2
• Educational Background	0 + 1
• Early Interest in Science	0 + 1
• Interesting (& true) Fact	0 + 1 + 2
• Written Work	0 + 1
• Awards	0 + 1
RESEARCH INFORMATION	
• Area(s) of Study	0 + 1 + 2
• Major Topic/Experiment(s)	0 + 1
• Brief Explanation of Major T./E.(s)	0 + 1 + 2 + 3
• Significance of Results wrt Quantum Theory	0 + 1 + 2 + 3
PRESENTATION OF INFORMATION	
• Neat, Complete & Organized	0 + 1 + 2 + 3
• Grammar & Spelling	0 + 1 + 2 + 3
• Sources Used & Cited Correclty	0 + 1 + 2 + 3
• Overall Impact/Appearance	0 + 1 + 2 + 3
TOTAL	/30
Comments	