Kerangka Alternatif Tenaga Bagi Pelajar Tingkatan Empat

Abstrak

Penyelidikan ini bertujuan untuk mengkaji kerangka alternatif terhadap tenaga bagi 33 orang pelajar perempuan dari sebuah sekolah di Kuala Lumpur, serta membandingkan kerangka alternatif mereka dengan kerangka alternatif pelajar yang diperolehi dari penyelidikan lain. Subjek yang digunakan terdiri daripada pelajar yang menyertai penyelidikan ini secara sukarela. Berdasarkan enam keadaan dan tiga peristiwa yang digunakan, kaedah IAI/E telah digunakan untuk mengumpul data. Kerangka alternatif pelajar dikenalpasti dari analisis respon pelajar dalam setiap keadaan dan peristiwa. Hasil kajian menunjukkan:


(iii) pelajar menunjuk antara sifar dan dua keranga alternatif terhadap tenaga untuk setiap keadaan atau peristiwa. Tetapi apabila semua
keadaan dan peristiwa di ambil kira secara keseluruhan, 15.15%,
21.21%, 27.27%, 27.27% dan 9.09% pelajar masing-masing
menunjukkan lima, empat, tiga, dua dan satu kerangka alternatif bagi
tenaga.

Beberapa implikasi daripada kajian telah dibincangkan dan beberapa
cadangan telah pun disyorkan untuk kajian lanjutan.
Abstract

This study was aimed at investigating the alternative frameworks of energy of 33 Form Four students from a girls’ school in Kuala Lumpur and to compare the frameworks obtained with those of other similar studies. The subjects of study comprised of students who had volunteered to participate in the research. Based on the six instances and events provided, the interview-about-instances/events (IAI/E) methodology was used to collect data. Students’ alternative frameworks of energy were identified from the analysis of their verbatim responses for each of the instances or events. Findings showed that:

(i) the students manifested six different frameworks of energy, namely, the Human Centred, Depository, Ingredient, Obvious Activity, Product and the Flow-transfer Frameworks which were similar to the frameworks of energy found in Watts’ (1983), Finegold and Trumper’s (1989), Lijnse’s (1990), Trumper and Gorsky’s and Trumper’s (1997) studies.

(ii) the common frameworks manifested by the students were the Depository and Product Frameworks compared with the Anthropocentric, Depository and Product Frameworks which were manifested by many students in Finegold and Trumper’s (1989), Trumper and Gorsky’s (1993) and Trumper’s (1997) studies.

(iii) students manifested between zero and two different frameworks of energy for a particular instance or event. Whereas when all the
instances and events were taken as a whole, 15.15%, 21.21%, 27.27%, 27.27%, 9.09% of the students respectively manifested five, four, three, two and one framework of energy.

Some specific implications arising from the study were discussed and a few recommendations were also suggested for further studies.