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The investigation of high school student's energy concept by using analogies

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Alternative energy tends to be more widespread in Thailand because the advanced technologies enhance the potential of equipment which becomes more economically rather than setting in laboratory likes in the past. For this reason students should understand profoundly about the characteristic of energy before they learn about alternative energy. To help students get more comprehension about the characteristic of energy, we need to investigate the idea about energy. There are two main reasons for the investigation (1) to identify the misconception about energy (2) to find out the most frequent analogies that are used by students. Students were given a task to write their analogies after doing the activity (STEM) about energy in class. The answers were categorized into four terms of scientific context: energy can be accounted, can change forms, can be lost and can be transferred. In general answers can be analyzed in more than four or five terms which depend on the scientific content.

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