



A contextual teaching and learning experience through insects species collection program

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ABSTRACT

This study investigated if there was significant difference in the appreciation and awareness of insects among the trainee students before and after the insects' species collection program. It also evaluated if contextual teaching and learning approach in the insects' species collection program assisted trainee students to learn insects. Respondents were 50 first-degree trainee students from mathematics option and science option. They learnt about insects through hands-on and minds-on activities, using contextual teaching and learning approach in the program. The study employed entrance survey, exit survey and program evaluation survey as the instruments. The entrance and exit survey consisted of 17 items with 5-point Likert-scale, where 10 items examined respondents' appreciation and seven items examined respondents' awareness on insects. The programme evaluation survey consisted of nine items adapted from LAM-PESS-08, the quality and procedure control manual of MS ISO 9001:2008. Open-ended item collected suggestions and comments. Data from the entrance and exit survey were analysed using Statistical Package for Social Sciences Software to check on the Cronbach's Alpha reliability coefficients and normality. Wilcoxon test showed that there was significant differences in the appreciation and awareness of insects among the trainee students before and after the insects' species collection program. Findings from the program evaluation survey showed that the program was successful (N= 50, mean = 4.8-5).

Keywords:

Contextual teaching and learning approach, insects' species collection, Program evaluation

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1. Introduction

Teacher Training Institute Kent Campus (IPGKK) is one of the higher learning institution that trains primary school teachers in Malaysia, under the Malaysian Teachers Education Institute (IPGM), Ministry of Education Malaysia (MOE). Its new campus which started its operation in Jun 2015, is located at the edge of Kg Bakut km 27.2, Jalan Tuaran, Sabah, Malaysia (6.1235° N, 116.2197° E). Its land areas cover 93.52 acres, having abundances of biodiversity such as *Actias maenas*, a moth

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A Contextual Teaching And Learning Experience Through Open

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web the quadratic formula in terms of the discriminant is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ example find the discriminant of the quadratic equation $2x^2 - 3x - 8 = 0$ comparing the equation with $ax^2 + bx + c = 0$ we get $a = 2$, $b = -3$ and $c = -8$ so the discriminant is Δ or $b^2 - 4ac = (-3)^2 - 4(2)(-8) = 9 + 64 = 73$ discriminant of cubic equation

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web find the value of the discriminant of each quadratic equation $1. 6p^2 - 2p - 3 = 0$ $2. 2x^2 - x - 1 = 0$ $3. 4m^2 - 4m - 5 = 0$ $4. 9b^2 - 4b - 2 = 0$ $5. r^2 - 5r - 2 = 0$ $6. 2p^2 - 5p - 4 = 0$ $7. 5p^2 - 4p - 5 = 0$ find the discriminant of each quadratic equation then state the number of real and imaginary solutions

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web mar 1 2022 the quadratic formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ if the discriminant is positive this means we are taking the square root of a positive number we will have a positive and negative real solution this equation will have two real solutions or x x intercepts