

**ANALISIS PENGAMBILAN KEPUTUSAN SISWA KELAS VIII
DALAM MENYELESAIKAN SOAL-SOAL BIOLOGI TIMSS
DI KOTA PALEMBANG**

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ABSTRAK

Studi ini bertujuan untuk menganalisis pengambilan keputusan siswa kelas VIII dalam menyelesaikan soal-soal Biologi TIMSS 2011 di Kota Palembang dilakukan dengan menggunakan metode survei. Sejumlah (n=366) siswa kelas VIII yang berasal dari 11 sekolah negeri dan swasta berakreditasi A, B, dan C baik sekolah yang berlokasi di pusat kota dan pinggiran kota terlibat sebagai sampel penelitian. Soal-soal Biologi TIMSS 2011 yang dipublikasikan oleh *Internatinal Association for The Evaluation of Educational Achievement*, angket persepsi penalaran siswa, dan *test logical of thinking* digunakan sebagai instrumen. Kriteria pengambilan keputusan difokuskan pada empat kategori, yaitu berdasarkan intuisi, heuristik, empiris dan rasional. Pernyataan pengarah untuk mengungkap cara pengambilan keputusan dan tingkat keyakinan siswa terintegrasi dalam lembar jawaban pada masing-masing butir soal. Selain dilihat kecenderungan cara pengambilan keputusan yang digunakan, juga dilihat hasil empiris capaian, tingkat keyakinan siswa dalam menyelesaikan soal, konsepsi penalaran siswa, dan posisi materi soal dalam KTSP SMP. Hasil penelitian menunjukkan bahwa siswa hasil capaian siswa rendah dengan kecenderungan penggunaan intuisi, tingkat keyakinan yang tinggi dan persepsi penalaran siswa yang cukup baik. Analisis materi soal menunjukkan beberapa materi belum dipelajari siswa sebelumnya. Perbedaan cara pengambilan keputusan pada materi yang sudah dan belum dipelajari terlihat pada siswa kategori tinggi. Kecenderungan penggunaan heuristik terlihat pada materi soal yang telah dipelajari dengan tingkat keyakinan yang tinggi, dan persepsi penalaran siswa yang tinggi pula. Hasil penelitian ini dapat menjadi masukan dalam rangka perbaikan mutu pembelajaran Biologi di SMP.

Keyword : Pengambilan keputusan (*decision-making*), Soal-soal Biologi TIMSS 2011, Kota Palembang.

THE ANALYSIS OF DECISION MAKING PROPOSED BY JUNIOR SECONDARY SCHOOL STUDENTS PALEMBANG CITY TO SOLVE TIMSS 2011 BIOLOGY TEST ITEMS

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ABSTRACT

A study, aimed to analyze the decision-making of eighth grade students in solving the problems of Biology TIMSS 2011 in Palembang, conducted by using the survey method. Number (n = 366) eighth grade students from 11 public and private schools accredited A, B, and C, both schools which located in the city center and suburbs were involved as research samples. Biological Problems TIMSS 2011 which was published by the *Internatinal Association for The Evaluation of Educational Achievement*, the perception questionnaire of students reasoning, and *test logical of thinking* was used as an instrument. Decision-making criteria are focused on four categories, which were based on intuitive, heuristics, empirical and rational. The steering statements to uncover the ways of decision making and the level of students' confidence were integrated in the answer sheet for each question item. Besides seeing the tendency used for decision making, also seeing the results of empirical outcomes, the students' confidence level in solving the problems, perceptions of student reasoning and the material position in SBC SMP. The study results showed that students' achievements are low with intuitive user tendency, a high level of confidence and perceptions of student reasoning is good enough. The analysis of question materials showed some materials which have not been learned before by the students. The differences in decision-making ways on the material that has been studied and have not been studied were seen in the high category students. The heuristics users tendencies were show on the question materials that have been learned with a high level of confidence, and also high perceptions of student reasoning. The results of this study can be an input in order to improve the quality of biology teaching in junior high school.

Keyword : Decision-making, TIMSS 2011 Test Items on Biology, Palembang City