

**ANALISIS KESULITAN BELAJAR SISWA PADA MATERI  
POKOK HEREDITAS DI KELAS XII IPA SMA  
NEGERI 1 BATANG KUIS TAHUN  
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**ABSTRAK**

Tujuan dari penelitian adalah untuk mengetahui kesulitan belajar siswa pada materi pokok hereditas yang ditinjau dari aspek kognitif dan faktor penyebab. Metode yang digunakan adalah deskriptif kuantitatif. Populasi dalam penelitian ini adalah seluruh siswa kelas XII IPA SMA Negeri 1 Batang Kuis. Sampel penelitian diambil secara *total sampling* sebanyak 134 siswa. Instrumen penelitian adalah tes objektif dan angket. Data dianalisis dengan teknik persentase. Hasil penelitian menunjukkan bahwa: (1) Persentase tingkat kesulitan belajar siswa pada setiap aspek kognitif soal Pengetahuan ( $C_1$ ) sebesar 47,44% termasuk dalam kategori kesulitan sedang, Pemahaman ( $C_2$ ) sebesar 52,35% termasuk dalam kategori kesulitan sedang, Aplikasi ( $C_3$ ) sebesar 42,32% termasuk dalam kategori kesulitan sedang, Analisis ( $C_4$ ) sebesar 61,44% termasuk dalam kategori kesulitan tinggi, Evaluasi ( $C_5$ ) sebesar 65,30% termasuk dalam kategori kesulitan tinggi, dan Kreasi ( $C_6$ ) sebesar 73,88% termasuk dalam kategori kesulitan tinggi; (2) Persentase kesulitan belajar setiap indikator soal pada materi pokok hereditas meliputi: indikator mendeskripsikan struktur, sifat, dan fungsi DNA sebesar 47,31% termasuk dalam kategori kesulitan sedang, indikator mendeskripsikan struktur, sifat, dan fungsi RNA sebesar 59,95% termasuk dalam kategori kesulitan sedang, indikator mengaitkan hubungan antara gen, DNA, kromosom sebesar 33,77% termasuk dalam kategori kesulitan rendah, indikator sintesis protein sebesar 57,61% termasuk dalam kategori kesulitan sedang, indikator menjelaskan keterkaitan gen, DNA-RNA-polipeptida dan sintesis protein sebesar 62,37% termasuk dalam kategori kesulitan tinggi, indikator mendeskripsikan pembelahan mitosis dan meiosis sebesar 44,93% termasuk dalam kategori kesulitan sedang, indikator mendeskripsikan fase-fase pembelahan mitosis dan meiosis sebesar 42,29% termasuk dalam kategori kesulitan sedang, dan indikator menghubungkan pembelahan sel dengan pewarisan sifat sebesar 53,98% termasuk dalam kategori kesulitan sedang; dan (3) Faktor penyebab kesulitan siswa dalam mempelajari materi hereditas adalah inteligensi, minat, motivasi, suasana rumah, materi pelajaran dan media massa.

Kata Kunci: Aspek kognitif, Indikator pembelajaran, Kesulitan belajar, Hereditas

**ANALYSIS OF STUDENT'S LEARNING DIFFICULTIES IN  
HEREDITY SUBJECT MATTER GRADE XII SCIENCE  
OF SENIOR HIGH SCHOOL 1 BATANG KUIS  
ACADEMIC YEAR 2016/2017**

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***ABSTRACT***

This research aimed to detect the learning difficulties of student on Heredity subject matter viewed from cognitive aspect and causal factors. The method used is quantitative descriptive. Population in this research is all student of class XII IPA SMA Negeri 1 Batang Kuis. The sample was taken in total sampling as many as 134 students. Data collection technique used diagnostic test about heredity subject matter and questionnaire. Data were analyzed by percentage technique. The results of this research after data analysis showed that: (1) The percentage of student's learning difficulties in cognitive aspect from knowledge aspect ( $C_1$ ) is 47.44% belongs to medium category of difficulty, comprehension ( $C_2$ ) is 52.35% belongs to medium category of difficulty, application ( $C_3$ ) is 42.32% belongs to medium category of difficulty, analysis ( $C_4$ ) is 61.44% belongs to high category of difficulty, evaluation ( $C_5$ ) is 65.30% belongs to high category of difficulty, and creation ( $C_6$ ) is 73.88% belongs to high category of difficulty; (2) The percentage of learning difficulties in learning indicator of heredity subject matter include: Describing the structure, character, and function of DNA indicator is 47.31% belongs to medium category of difficulty, Describing the structure, character, and function of RNA indicator is 59.95% belongs to medium category of difficulty, Linking the relationship between genes, DNA, chromosomes indicator is 33.77% belongs to low category of difficulty, Protein synthesis indicator is 57.61% belongs to medium category of difficulty, Explain the linkage of genes, DNA-RNA-polypeptide and protein synthesis indicator is 62.37% belongs to high category of difficulty, Describe mitotic and meiotic divisions indicator is 44.93% belongs to medium category of difficulty, Describe the phases of mitotic and meiotic division indicator is 42.29% belongs to medium category of difficulty, Link cell division with inheritance indicator is 53.98% belongs to medium category of difficulty; and (3) Factor difficulty student in learning of heredity subject matter is intelligence, interest, motivation, home atmosphere, subject matter and media.

**Keywords:** *Cognitive aspect, Learning indicator, Learning difficulties, Heredity*