Analysis Of the Characteristics Of HOTS-Based Assessment for Learning Items Using the Rasch Model.

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- **Abstract:** This research is part of the development of a student performance assessment model based on Higher Order Thinking Skills (HOTS) in Senior High Schools (SMA). The research objective at this stage is to analyze the characteristics of the HOTS-based student performance task items, namely: validity and reliability. Student performance assignment (assessment for learning) was developed in an essay format based on the results of the synthesis of the sub-dimensions of Bloom's Taxonomy, Marzano's Taxonomy, and SOLO's Taxonomy. The results of the sub-dimensional synthesis produced 11 item indicators from the relational dimension and the extended abstraction dimension based on the SOLO Taxonomy. Student performance tasks carried out in high school as many as 585 students. Data were collected and analyzed using the Rasch model to determine the characteristics of the items. The results showed that Cronbach's alpha value was 0.73, which means that the assessment for learning instrument can measure HOTS. The value of the reliability item is 0.95. This means the consistency of 524 student responses to 6 special items. 6 items fit and 524 persons fit against the Rasch model. Based on the results above, it can be concluded that the HOTS-based assessment for learning item with 6 items based on the SOLO Taxonomy is valid.

- **Keywords:** SOLO Taxonomy, HOTS, learning instrument