

**ANALYSIS OF STUDENTS' HIGHER ORDER THINKING AND  
CRITICAL THINKING SKILLS ON PLANT TISSUE  
TOPIC IN GRADE XI SMAN 2 KISARAN  
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**ABSTRACT**

This research aims to know students' higher order thinking and critical thinking skills on plant tissue topic in grade XI Science. The research was conducted in senior high school grade XI Science of SMAN 2 Kisaran, and the sample was taken by random sampling, namely taking 2 science classes in grade XI, XI MIPA 1 and XI MIPA 2. The kind of this research is descriptive quantitative. The each test, higher order thinking skills test and critical thinking skills test is 15 items, so the total is 30 items. The tests were validated by experts in plant tissue topic before used as the instrument research, followed by using instrument testing validity test, reliability test, difficulty level test and discrimination power. The result of research are the value of the higher order thinking achievement of students in grade XI Science SMAN 2 Kisaran is 70.73% in range 70-79% which indicates that the students critical thinking skills is in "enough category". The value of the critical thinking achievement of students in grade XI Science SMAN 2 Kisaran is 55.73% in range <50-69% which indicates that the students critical thinking skills is in "less category".

**Keyword:** *higher order thinking skills, critical thinking skills, plant tissue topic*

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