

**PENGEMBANGAN TUGAS KINERJA DAN RUBRIK  
KETERAMPILAN PROSES SAINS PESERTA DIDIK SMA  
PADA MATERI GETARAN HARMONIK**

**TESIS**

Diajukan untuk memenuhi sebagian syarat untuk memperoleh gelar Magister  
Pendidikan Fisika



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SMA PADA MATERI GETARAN HARMONIK*

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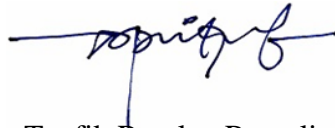
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## Abstrak

Penilaian keterampilan proses sains masih banyak berbentuk tes, dan masih sedikit yang menggunakan penilaian non-tes, keterampilan proses sains merupakan keterampilan yang sangat penting dikuasai peserta didik, namun masih banyak pendidik yang terkendala untuk menilainya. Penelitian ini bertujuan untuk mengembangkan tugas kinerja dan rubrik keterampilan proses sains untuk peserta didik SMA sebagai alternatif alat penilai kinerja yang bisa menggambarkan keadaan peserta didik secara nyata dan memberikan umpan balik bagi pendidik untuk memperbaiki proses belajar mengajar. Pengembangan tugas kinerja dan rubrik dilakukan menggunakan *mixed-method* dengan *exploratory design: instrument development model*. Partisipan dalam penelitian ini adalah dosen yang ahli dibidang yang terkait, guru fisika SMA dan peserta didik SMA kelas X, XI, dan XII. Instrumen yang digunakan adalah lembar kegiatan peserta didik, rubrik penilaian, lembar validasi dan lembar keterbacaan, dengan Teknik analisis data menggunakan bantuan software NVIVO 12 dan Minifac (*Facets*) *Rasch*. Pengembangan menghasilkan dua tugas kinerja dan rubrik materi getaran harmonik meliputi enam aspek keterampilan proses sains yaitu keterampilan observasi, inferensi, prediksi, berhipotesis, merancang eksperimen dan melakukan eksperimen dengan reliabilitas tugas kinerja dan rubrik secara berurutan sebesar 0,92 dan 0,85 serta memiliki keterbacaan 0,79. Hasil yang didapatkan dalam penelitian ini bisa menjadi referensi untuk mengembangkan penilaian keterampilan proses sains, dan menjadi model dalam melatih keterampilan proses sains

Kata kunci: Tugas Kinerja, Rubrik, Keterampilan Proses Sains, Getaran Harmonik

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