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**MEMBANGUN KONSEP ENERGI PANAS
DAN ENERGI BUNYI MELALUI PERCOBAAN SEDERHANA
PADA SISWA KELAS IV SEKOLAH DASAR**

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***Abstract:** The aims of the research were to determine the profile of student's misconceptions on the concept of heat energy and sound energy, and to examine the effectiveness of the constructivist learning application using a simple experiment activity in developing the concept of heat energy and sound energy. This study was a quasi experimental with one group pretest-posttest design without controlling class. Pretest was used to determine the student's misconceptions profile. The effectiveness of constructivist learning using a simple experiment activity was identified by comparing the average of the score between the pretest and posttest. The results of this research showed that: (1) Most of the students still had misconceptions on the concept of heat energy and sound energy. Student's misconceptions on the concept of heat energy consisted of the heat sources, convection, and heat transfer process. At the sound energy, misconceptions occurred on the sound source and sound propagation through the liquid and gases. (2) Constructivist approach in learning using a simple experiment activity was effective in developing the concept of heat energy and sound energy, this was supported by the results of the pretest and posttest which reached reduction level of misconceptions by 37-39%. Based on the analyzed data showed that constructivist learning using a simple experimental activity could be implemented as one of the learning innovations, especially in concepts developing and misconceptions reduction into scientific concepts.*

***Key Words :** constructivist, misconceptions, a simple experiment*