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## **JURNAL PEMBELAJARAN FISIKA (JPF)**

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**PENGEMBANGAN LKS BERPROGRAMA PADA SUB POKOK BAHASAN  
PERPINDAHAN KALOR DI SMA**

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***Abstract***

*Programmed student worksheet is a student's escort to do research or problem solving by consider student's individual ability in the form of small units that involved by answer keys and guidance. The purposes of this research are to produce a valid programmed student worksheet, describe the student's comprehension of physics concepts, and describe the student's performance of lab work. The type of this research is research and development (R & D) by using 4-D development model. Conclusion of this research showed that the programmed student's worksheet is valid enough with score 3,81 for branched type and 3,96 for linear type. Besides, interpretation comprehension of student is reaching the highest percentage (94,85%), and aspect of interpreting and concluding results as the part of performance of lab work assessment is reaching the highest percentage (71,32%).*

**Keyword:** *Programmed student worksheet, branch type, linear type*