

# **To design learning activities for the interference and the diffraction of light by using the learning package cooperate STAD technique : a case of secondary high school.**

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The objective of this study was designed the effective learning activities for studying in the interference and diffraction patterns of light. The learning package of the interference and the diffraction of light (LPID) were used with the cooperative learning, Student Teams-Achievement Divisions (STAD) technique, for the secondary high school students. LPID was designed that consists of the adjustable width single slit and double-slit two laser light sources (red, green) and acrylic box, that can be flow the smoke. The interference and the diffraction patterns were observed. The expectations of study in learning physics were investigated by Maryland Physics Expectations (MPEX) and the assessment for learning was observed by normalized gain. Research has shown results of this learning package.

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