

**PENGEMBANGAN MEDIA AJAR ALAT DISTILASI SEDERHANA  
DALAM PEMBELAJARAN IPA UNTUK MENINGKATKAN  
KETERAMPILAN BERPIKIR KREATIF PESERTA DIDIK PADA  
MATERI PEMISAHAN CAMPURAN  
(IRMAN, 2026)**

**ABSTRAK**

Penelitian ini bertujuan untuk mengembangkan media pembelajaran berupa alat distilasi sederhana pada materi pemisahan campuran serta menguji validitas dan efektivitasnya dalam meningkatkan keterampilan berpikir kreatif peserta didik. Penelitian ini menggunakan model ADDIE dengan pendekatan Research and Development (R&D). Subjek penelitian adalah peserta didik kelas VIII di SMPN 1, SMPN 2, SMPN 4, dan SMPN 5 Ciptajuh. Validitas media dinilai oleh ahli materi dan ahli media menggunakan instrumen angket skala Likert, dengan hasil masing-masing sebesar 93% dan 98% yang termasuk dalam kategori sangat valid. Efektivitas media diukur melalui peningkatan keterampilan berpikir kreatif berdasarkan hasil *pretest* dan *posttest*. Hasil penelitian menunjukkan bahwa penggunaan alat distilasi sederhana mampu meningkatkan keterampilan berpikir kreatif peserta didik dengan kategori peningkatan sedang di SMPN 1, 4, 5 Ciptajuh dan kategori peningkatan tinggi di SMPN 2 Ciptajuh. Hasil uji ANCOVA menunjukkan bahwa skor *pretest* sebagai kovariat berpengaruh signifikan terhadap skor *posttest* di SMPN 1 Ciptajuh (Sig. = 0,000 < 0,05) dan di SMPN 2, 4, dan 5 Ciptajuh (Sig. = 0,004 < 0,05). Hasil analisis *effect size* sebesar 4,52 dan 4,78 menunjukkan bahwa penggunaan media alat distilasi sederhana memberikan pengaruh yang berada pada kategori efek besar. Dengan demikian, media pembelajaran alat distilasi sederhana dinyatakan layak dan efektif dalam mendukung peningkatan keterampilan berpikir kreatif pada pembelajaran IPA.

**Kata kunci:** keterampilan berpikir kreatif, alat distilasi sederhana, pemisahan campuran.

**DEVELOPING SIMPLE DISTILLATION APPARATUS TEACHING  
MEDIA IN SCIENCE LEARNING TO IMPROVE STUDENTS'  
CREATIVE THINKING SKILLS ON THE SEPARATION OF MIXTURES  
(IRMAN, 2026)**

**ABSTRACT**

*This study aims to develop a learning medium in the form of a simple distillation apparatus for the topic of mixture separation and to examine its validity and effectiveness in enhancing students' creative thinking skills. The study employed the ADDIE model within a Research and Development (R&D) framework. The participants were eighth-grade students from SMPN 1, SMPN 2, SMPN 4, and SMPN 5 Cipatujah. The validity of the developed media was evaluated by material and media experts using a Likert-scale questionnaire, yielding scores of 93% and 98%, respectively, which are categorized as highly valid. The effectiveness of the media was determined based on the improvement in students' creative thinking skills, as measured through pretest and posttest scores. The results indicate that the implementation of the simple distillation apparatus led to a moderate level of improvement in SMPN 1, SMPN 4, and SMPN 5 Cipatujah, and a high level of improvement in SMPN 2 Cipatujah. The ANCOVA results revealed that pretest scores, treated as a covariate, had a statistically significant effect on posttest scores in SMPN 1 Cipatujah (Sig. = 0.000 < 0.05) as well as in SMPN 2, SMPN 4, and SMPN 5 Cipatujah (Sig. = 0.004 < 0.05). This finding indicates that students' prior knowledge significantly influenced their learning outcomes following the intervention. Moreover, the effect size analysis yielded values of 4.52 and 4.78, which are classified as large effect sizes. These results suggest that the developed simple distillation apparatus has a substantial impact on improving students' creative thinking skills. In conclusion, the simple distillation apparatus is considered both valid and effective as a learning medium for enhancing creative thinking skills in science education.*

**Keywords:** *creative thinking skills, simple distillation apparatus, mixture separation.*