

## ABSTRAK

**Umar Darwis (8186183001)**, Pengembangan Model Pembelajaran *Think Compu Kids-Problem, Project, Discovery Learning* (TCK-PPDL) Untuk Meningkatkan Keterampilan Berpikir Aras Tinggi (Hots) Siswa Sekolah Dasar Pada Mata Pelajaran IPAS.

Penelitian ini bertujuan untuk mengembangkan model pembelajaran *Think Compu Kids-Problem, Project, Discovery Learning* (TCK-PPDL) guna meningkatkan keterampilan berpikir aras tinggi (*Higher Order Thinking Skills/HOTS*) siswa sekolah dasar pada mata pelajaran IPAS. Model ini merupakan integrasi antara pendekatan *Computational Thinking* (CT) dan tiga model pembelajaran konstruktivistik: *Problem-Based Learning* (PBL), *Project-Based Learning* (PjBL), dan *Discovery Learning* (DL). Penelitian ini menggunakan metode pengembangan model Plomp yang meliputi tahapan investigasi awal, desain, realisasi, evaluasi, dan implementasi. Hasil penelitian menunjukkan bahwa model TCK-PPDL memiliki tingkat validitas yang sangat valid, dengan rata-rata skor 0,88. Kepraktisan model dinilai sangat praktis, dengan skor rata-rata 4,38 bagi guru, dan 4,41 bagi siswa. Sementara itu, uji efektivitas menunjukkan adanya peningkatan signifikan pada skor HOTS siswa setelah menggunakan model ini, dengan hasil uji-t pada dua sekolah menunjukkan nilai  $p < 0,05$ . Peningkatan skor rata-rata posttest dibandingkan pretest di kedua sekolah yang diuji menunjukkan rata-rata selisih -26,59 pada SD 060817 dan -9,47 pada SD 060924. Model ini juga dilengkapi dengan buku pedoman implementasi yang memudahkan guru dalam menerapkan sintaks pembelajaran. Penelitian ini memberikan kontribusi terhadap pengembangan kurikulum Merdeka dan penguatan keterampilan abad ke-21 melalui integrasi simultan CT dan HOTS dalam pembelajaran IPAS.

**Keyword:** TCK-PPDL, HOTS, *Computational Thinking*, IPAS, Model Pembelajaran, Sekolah Dasar.



## ABSTRACT

**Umar Darwis (8186183001)**, Development of Think Compu Kids-Problem, Project, Discovery Learning (TCK-PPDL) Learning Model to Improve High Level Thinking Skills (HOTS) of Elementary School Students in Science Subjects.

This study aims to develop the Think Compu Kids-Problem, Project, Discovery Learning (TCK-PPDL) learning model to improve elementary school students' Higher Order Thinking Skills (HOTS) in the science subject. This model is an integration of the Computational Thinking (CT) approach and three constructivist learning models: Problem-Based Learning (PBL), Project-Based Learning (PjBL), and Discovery Learning (DL). This study uses the Plomp model development method which includes the stages of initial investigation, design, realization, evaluation, and implementation. The results show that the TCK-PPDL model has a very valid level of validity, with an average score of 0.88. The practicality of the model is considered very practical, with an average score of 4.38 for teachers and 4.41 for students. Meanwhile, the effectiveness test shows a significant increase in students' HOTS scores after using this model, with the results of the t-test in two schools showing a p value  $<0.05$ . The increase in the average posttest score compared to the pretest in both schools tested showed an average difference of -26.59 in SD 060817 and -9.47 in SD 060924. This model is also equipped with an implementation guidebook that makes it easier for teachers to apply the learning syntax. This research contributes to the development of the Merdeka curriculum and the strengthening of 21st-century skills through the simultaneous integration of CT and HOTS in science learning.

Keyword: TCK-PPDL, HOTS, Computational Thinking, IPAS, Instructional Model, Elementary School

