

## ABSTRAK

**Laili, Tri Indah N.** 2021. Pengaruh Permainan Eksperimen Air Pelangi Terhadap Kemampuan Kognitif Anak Usia 4-5 Tahun di TK Ram 186 Darul Ulum Mojosariro, Driyorejo-Gresik. Skripsi, Jurusan Pendidikan Guru Pendidikan Anak Usia Dini, Fakultas Pedagogi dan Psikologi, Universitas PGRI Adi Buana Surabaya. Pembimbing Utama Made Ayu Anggreni, S.Psi., M.Pd dan Pembimbing Kedua Ervina Nurul Afirmida, S.Pd., M.Si.

**Kata Kunci :** Permainan Eksperimen, Kemampuan Kognitif

Penelitian ini dilatar belakangi oleh kemampuan kognitif anak usia 4-5 dalam mengenal warna yang masih belum optimal saat dilakukan permainan eksperimen, salah satunya permainan eksperimen air pelangi. Hal ini disebabkan karena guru kurang berasiasi dalam memberikan pembelajaran kepada anak. Banyak metode-metode yang dapat dilakukan saat memberikan pembelajaran salah satunya yaitu dengan eksperimen, pembelajaran ini dilakukan dimana anak akan melakukan percobaan tentang suatu hal, lalu mengamati prosesnya serta menuliskan hasilnya. Tetapi kenyataan selama proses pembelajaran guru masih menggunakan bahan ajar LKS sehingga anak hanya cenderung mengerjakan apa yang ada di dalamnya serta kurang diberikan wawasan tentang pendidikan anak usia dini.

Penelitian ini menggunakan pendekatan penelitian kuantitatif dengan jenis penelitian *pre eksperimen* dengan menggunakan *one group pretest-posttest design*. Subjek pada penelitian ini yaitu anak usia 4-5 tahun di TK Ram 186 Darul Ulum Mojosariro Driyorejo-Gresik sejumlah 16 anak. Metode dalam pengumpulan data dengan menggunakan observasi, tes dan dokumentasi.

Berdasarkan hasil perhitungan menggunakan rumus uji T yang memperoleh hasil  $T_{hitung}$  adalah 4,117 lebih besar dari  $T_{table}$ , dengan demikian dapat dikatakan  $T_{hitung} > T_{table}$ . Maka Hipotesis nol ( $H_0$ ) ditolak dan hipotesis alternative ( $H_a$ ) diterima, dapat disimpulkan bahwa ada pengaruh permainan eksperimen air pelangi terhadap kemampuan kognitif anak usia 4-5 di Tk Ram 186 Darul Ulum Mojosariro Driyorejo-Gresik.

## ABSTRACT

**Laili, Tri Indah N.** 2021. The Effect of the Rainbow Water Experiment Game on the Cognitive Ability of Children aged 4- 5 Years at TK Ram 186 Darul Ulum Mojosarirejo, Driyorejo- Gresik. Thesis, Department of Early Childhood Education Teacher Education, Faculty of Pedagogy and Psychology, Universitas PGRI Adi Buana Surabaya. Main Advisor Made Ayu Anggreni, S.Psi., M.Pd and Second Advisor Ervina Nurul Affrida, S.Pd., M.Si.

**Keywords:** Experimental Games, Cognitive Ability

This research was motivated by the cognitive skills of children aged 4-5 in recognizing colors that were still not optimal when playing experimental games, one of which was the rainbow water experiment game. This is due to the lack of variation in giving learning to children. There are many methods that can be used when providing learning, one of which is by experimenting, this learning is carried out where the child will do an experiment about something, then observe the process and write down the results. But the fact is that during the learning process the teacher still uses LKS teaching materials so that children only tend to do what is in it and are not given enough insight into early childhood education.

This study uses a quantitative research approach with pre-experimental research type using one group pretest-posttest design. Subjects in this study were 16 children aged 4-5 years at TK Ram 186 Darul Ulum Mojosarirejo Driyorejo-Gresik. Methods in data collection using observation, tests and documentation.

Based on the results of calculations using the T test formula, which results in the result that  $T_{count}$  is 4,117 greater than the  $T_{table}$ , thus it can be said that  $T_{count} > T_{table}$ . Then the null hypothesis ( $H_0$ ) is rejected and the alternative hypothesis ( $H_a$ ) is accepted, it can be concluded that there is an effect of the rainbow water experiment game on the cognitive abilities of children aged 4-5 at Tk Ram 186 Darul Ulum Mojosarirejo Driyorejo-Gresik.