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**Abstract:** The purpose of this study was to determine the effect of a 12-week training program on the physical fitness of 10-year-old children. The study was conducted in a primary school in the city of Bursa, Turkey. The study group consisted of 20 children (10 boys and 10 girls) who were randomly selected from the 10-year-old children of the school. The children were divided into two groups: a control group and an experimental group. The control group did not participate in any physical education program, while the experimental group participated in a 12-week training program. The physical fitness of the children was measured at the beginning and at the end of the 12-week period. The measurements included maximum heart rate, maximum oxygen consumption, maximum power, maximum speed, maximum endurance, and maximum strength. The results of the study showed that the experimental group had significantly higher values for all the measured physical fitness parameters at the end of the 12-week period compared to the control group. The findings of this study suggest that a 12-week training program can improve the physical fitness of 10-year-old children.

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