

# Az echolokáció kialakítása látássérült személyeknél

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## **Abstract**

The objective of the development is to aid the orientation ability through the use of echolocation. By this ability people actively create sounds by clicking with mouths, clapping or snapping and by the interpreting the reflected sound waves a person can identify the location of nearby objects and use this information to steer around obstacles and travel from place to place. The relationship between the auditory perception and the recognition of the presence of obstacles stands in the center of the research. We studied whether after having done certain echolocation exercises with us, the blind children would use these abilities to improve their mobility. During the exercises, the assignment was to determine the place of certain obstacles solely through the use of echoes being reflected by different surfaces. We managed to prove that the blind children were able to determine the place of surrounding obstacles by using echolocation acquired through the bundle of exercises created by us, thus improving the way in which they move around.

## **Keywords**

Orientation, blind, echolocation, reflected sound waves, auditory perception