

Range of Use

The TALENTBRÜCKE – Spatial Imagination Test can be used for young people between the ages of 13 and 15 in all types of schools.

Structure and Content

The TALENTBRÜCKE – Spatial Imagination Test measures the ability of people to think and see spatially. The test comprises three task groups (surface task, cube task, folding task), each with five subtasks. It consists of a reusable task booklet and additional answer sheets on which the tasks are solved.

Application and Evaluation

Execution: In order to carry out the TALENTBRÜCKE – Spatial Imagination Test, a test booklet, an answer sheet and a pen are required for each test person.

Processing Time: The total processing time, including instructions, is approx. 30 minutes. The three individual task groups are processed in a total time of 15 minutes without a break

Evaluation: The TALENTBRÜCKE – Spatial Imagination Test is evaluated with a template. With the TALENTBRÜCKE – Software a standardized evaluation for all school types is possible. The output of the results report is currently (2019) possible in German, English and Spanish.

Normalization: A school form normalization ($n = 14,527$) is available.

Theoretical Background and Test Development

The theoretical basis of the TALENTBRÜCKE – Spatial Imagination Test are the works of Thurstone (1938), with his test of "Primary Mental Abilities", Gittler (1990), which regards spatial imagination as a "homogeneous latent capability dimension[s]", Rost (1977) and Maier (1994). The test was developed in 2016 and, makes use of the three task forms of spatial basic understanding, pattern cubes, and folding templates of three-dimensional bodies, the combination of which covers the concept of spatial imagination.