

## Participation in Test „Friendly way of teaching math“

Dear participant,

thank you for participating in the evaluation of two user interface designs, to support the investigation of the usability of different interaction methods.

### **Important:**

- **You can abort the evaluation process for whatever reason at any stage. All tests will then be stopped immediately. All of your test data will be erased immediately. You do not need to explain why you want to abort.**
- **If we store live video recordings as part of the evaluation process, you may use a mask to hide your facial identity.**

### **Your task focuses around the following test scenario:**

Playing an educational game about solving simple mathematical problems using two different interaction mechanisms. First, a keyboard and one image tracker is used and then two image trackers are used.

You are asked to solve the following tasks:

- [T1] Pick up and then drop a wrong die into the box.
- [T2] Pick up and then drop the correct die into the box.
- [T3] Solve 5 equations by dropping the correct die into the box.

### **Overall test procedure (about 20 minutes):**

1. Fill out the demographic questionnaire (about 2 minutes).
2. Familiarize yourself with the technical setup (arbitrary time).  
At this stage, you will be presented our overall environment. You will have the chance to try out the particular user interface arrangements that you will be asked to work with – in a specifically selected demonstration scenario. Feel free to ask any questions that come to mind. Don't be rushed.
3. Subsequently, you will be exposed to the evaluation scenario. You will be asked to solve the above defined tasks [T1]..[T3] with each of the two interface arrangements (about 3 minutes).
  - a. Solve the tasks with the currently given user interface (about 3 minutes).
  - b. Fill out questionnaires to provide feedback on how well you got along with this particular interface (about 5 minutes).
  - c. Provide us with informal comments on the user experience you just went through (approximately 2 minutes).
4. Closing discussion/interview. Please provide us with any additional insights/observations that come to mind (about 2 minutes).