

# Questionnaire 2.1 (mid)

Participant Id = \_\_\_\_\_

Please fill in the following questionnaire according to how you feel.

## General Discomfort

None

←  0 —  1 —  2 —  3 →

Severe

## Fatigue

None

←  0 —  1 —  2 —  3 →

Severe

## Headache

None

←  0 —  1 —  2 —  3 →

Severe

## Eyestrain

None

←  0 —  1 —  2 —  3 →

Severe

## Difficulty Focusing

None

←  0 —  1 —  2 —  3 →

Severe

## Increased salivation

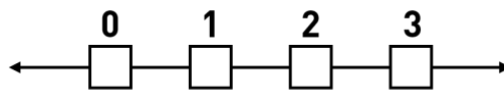
None

←  0 —  1 —  2 —  3 →

Severe

**Sweating**

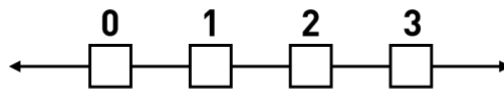
None



Severe

**Nausea**

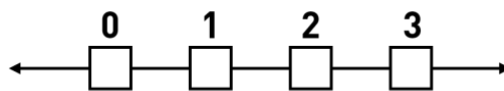
None



Severe

**Difficulty concentrating**

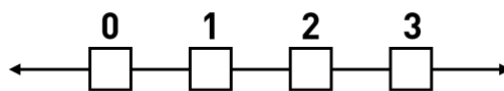
None



Severe

**Fullness of head**

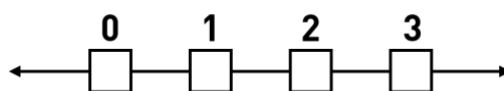
None



Severe

**Blurred vision**

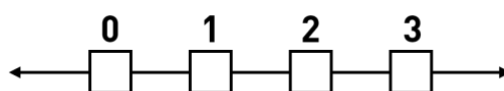
None



Severe

**Dizzy (eyes open)**

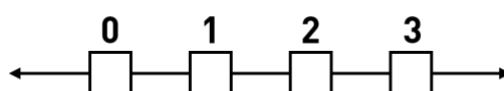
None



Severe

**Dizzy (eyes closed)**

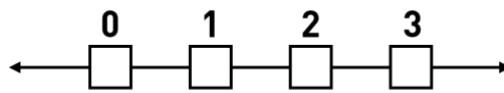
None



Severe

**Vertigo**

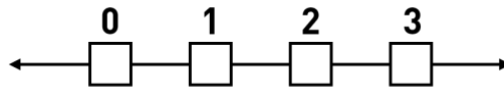
None



Severe

**Stomach awareness**

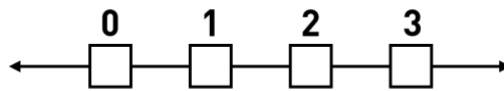
None



Severe

**Burping**

None



Severe

# Questionnaire 2.2 (mid)

Participant Id = \_\_\_\_\_

Please fill in the following questionnaire. For each of the statements, indicate how strongly you agree with it, from “Strongly disagree” (1) to “Strongly agree” (5). All the statements apply to **math class**.

**I think that I would like to use this system frequently**

Strongly disagree      ←  1 —  2 —  3 —  4 —  5 →      Strongly agree

**I found the system unnecessarily complex**

Strongly disagree      ←  1 —  2 —  3 —  4 —  5 →      Strongly agree

**I found the system was easy to use**

Strongly disagree      ←  1 —  2 —  3 —  4 —  5 →      Strongly agree

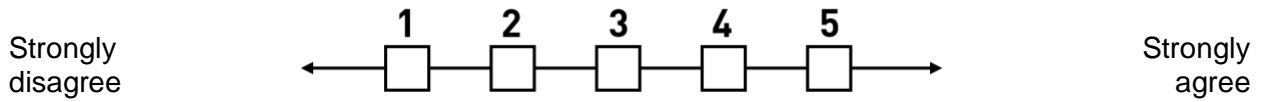
**I think that I would need the support of a technical person to be able to use this system**

Strongly disagree      ←  1 —  2 —  3 —  4 —  5 →      Strongly agree

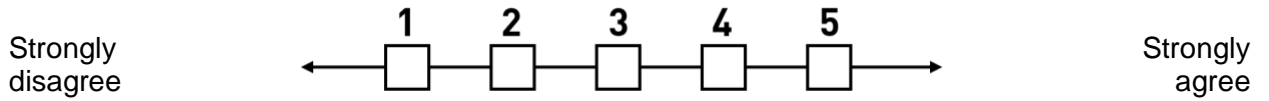
**I found the various functions in this system were well integrated**

Strongly disagree      ←  1 —  2 —  3 —  4 —  5 →      Strongly agree

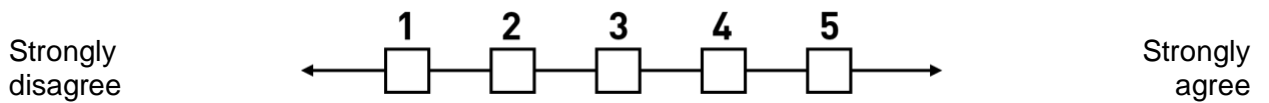
**I thought there was too much inconsistency in this system**



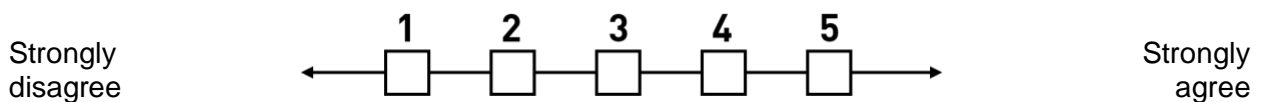
**I would imagine that most people would learn to use this system very quickly**



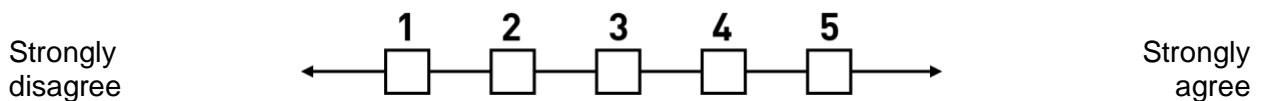
**I found the system very cumbersome to use**



**I felt very confident using the system**



**I needed to learn a lot of things before I could get going with this system**



# Questionnaire 2.3.1 (mid)

Participant Id = \_\_\_\_\_

Please read each statement and answer on a 1 to 7 scale indicating how much each statement applied to you during the experiment. There are no right or wrong answers. Please answer spontaneously and intuitively.

**I felt like the virtual hands were my virtual hands.**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**I felt like the virtual fingers were my fingers.**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**The virtual hands felt like human hands.**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**It felt like the virtual hands belonged to me.**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**The movements of the virtual hands felt like they were my movements.**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**I felt like I was controlling the movements of the virtual hands.**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**I felt like I was causing the movements of the virtual hands.**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**The movements of the virtual hands were in sync with my own movements.**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**I felt like the form or appearance of my own hands changed.**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**I felt like the weight of my own hands had changed.**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**I felt like the length of my own hands had changed.**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**I felt like the width of my own hands had changed.**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

# Questionnaire 2.3.2 (mid)

Participant Id = \_\_\_\_\_

Please read each statement and answer on a 1 to 7 scale indicating how much each statement applied to you during the experiment. There are no right or wrong answers. Please answer spontaneously and intuitively.

**It felt like I could control the curve as if I was directly manipulating in the real world**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**The movements of the curve were caused by my movements**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**I felt as if the movements of the curve were influencing my own movements**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree

**I felt as if the curve was moving by itself**

Strongly disagree ←  1  2  3  4  5  6  7 → Strongly agree



# Questionnaire 2.4 (mid)

Participant Id = \_\_\_\_\_

Please read each statement and answer on a 1 to 5 scale indicating how much each statement applied to you during the experiment. There are no right or wrong answers. Please answer spontaneously and intuitively.

**I used the mini-display**

Never ← 1 2 3 4 5 → Very often

**I used the score**

Never ← 1 2 3 4 5 → Very often

## References

Kennedy, R. S., Lane, N. E., Berbaum, K. S., & Lilienthal, M. G. (1993). Simulator sickness questionnaire: An enhanced method for quantifying simulator sickness. *The international journal of aviation psychology*, 3(3), 203-220.

Brooke, J. (1996). Sus: a "quick and dirty" usability. *Usability evaluation in industry*, 189(3).

Roth, D., & Latoschik, M. E. (2019). Construction of a validated virtual embodiment questionnaire. *arXiv preprint arXiv:1911.10176*.

Gonzalez-Franco, M., & Peck, T. C. (2018). Avatar embodiment. towards a standardized questionnaire. *Frontiers in Robotics and AI*, 5, 74.