



Standardized questionnaires and construction of a new questionnaire

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Rescheduling in December

- ◇ Regarding the seminar lesson of the 10th of December...
 - ◇ The seminar lesson will take place on Wednesday, 11th December at 10:15 am (during the tutorial time)
 - ◇ The tutorial will take place on Thursday, 12th December at 10:15 am
 - ◇ The exercise sheet of this week is due 11th December (6 pm) instead of 10th December.

Questionnaires in EduTech Research

- ◇ Goal: Measuring...
 - ◇ Knowledge (gain)
 - ◇ Attitudes / opinions
 - ◇ Demographic aspects

Example: Open item to measure knowledge

Translation

Beschreibe, wie man die Aufgaben von Problem 6 lösen kann.

Describe how one can solve the tasks of problem 6

Example: Closed items to measure knowledge:

Translation

Ergänze eines der folgenden Zeichen: > oder < oder =

Add one of these signs: > or < or =

$$2 \quad \square < \quad 3$$

$$\frac{2}{10} \quad \square \quad \frac{1}{5}$$

$$\frac{1}{4} \quad \square \quad \frac{3}{4}$$

$$\frac{4}{8} \quad \square \quad \frac{4}{12}$$

$$\frac{1}{3} \quad \square \quad \frac{1}{2}$$

$$\frac{16}{17} \quad \square \quad \frac{13}{14}$$

$$\frac{1}{8} \quad \square \quad \frac{1}{4}$$

$$\frac{5}{2} \quad \square \quad 2$$

Example: Closed items to measure attitudes

Beispiel: Wie sehr magst du die große Pause?



Wie sehr magst du Mathe?



Wie gerne lernst du alleine?



Wie gerne lernst du mit anderen zusammen?



Wie gerne gehst du in die Schule?



Smileyometer (Read, 2008)

Translated:

- How much do you like breaks (in school)?
- How much do you like mathematics?
- How much do you like learning alone?
- How much do you like learning with others?
- How much do you like going to school?

How to formulate items

- ◇ Positive wording: no double negative
- ◇ Simple sentences
- ◇ No undefined abbreviations, (technical) terms fitting to target group
- ◇ Only one construct per item
- ◇ No generalized expressions (always, never, no one...)
- ◇ No evaluation words
- ◇ Concretize time spans (“in the last two weeks“)
- ◇ No leading question

Exercise

- ◇ Build three groups
- ◇ Formulate 5-10 items regarding “students’ motivation to use tablets for learning” (10 minutes)
- ◇ Collect the items here:

<https://tinyurl.com/y6sa4nyd>

Your examples

Criteria:

- Positive wording
- Simple sentences
- No undefined abbreviations
- Only one construct per item
- No generalized expressions
- No evaluation words
- Concretize time spans
- No leading question

Rather good examples

Do you have access to tablet? (1) Yes (2) No

Do you think that students learn faster using video games apps?

I think using Tablets will enhance my learning. # Strongly Agree # Agree # No opinion # Disagree # Strictly disagree

Rather problematic examples

Is tablet easy to use for students? Yes / No

Do you think that students will be distracted by using tablets?

Using Tablet is convenient. # Strongly Agree # Agree # No opinion # Disagree # Strictly disagree

Does using a tablet facilitate collaborative learning

Agree

Neutral

Disagree

Next week...

- ◇ SPSS!
- ◇ Bring your laptops with SPSS installed