

Data Dictionary

for “2023-2-17_SENSO360.xlsx”

| Code | Description | Values |
|---------|--|---|
| Nr | Case ID | Number |
| GRP | Group affiliation | VFT = virtual field trip group AFT = actual field trip group |
| AGE | Participant’s age | years |
| GRDE | Participant’s grade /class level | School classes 9-12 |
| SEX | Participants gender | m = male w = female d = diverse |
| INT_1 | Total item score (mean of all items) of the subscale for “intimidation” (INT) of the Modern Technology Attitude Index (MTAI) * at the FIRST time of enquiry | 1 = strongly disagree (minimum) 4 = fully agree (maximum) |
| INT_2 | Total item score (mean of all items) of the subscale for “intimidation” (INT) of the Modern Technology Attitude Index (MTAI) * at the SECOND time of enquiry | 1 = strongly disagree (minimum) 4 = fully agree (maximum) |
| LOC_1 | Total item score (mean of all items) of the subscale for “loss of control” (LOC) of the Modern Technology Attitude Index (MTAI) * at the FIRST time of enquiry | 1 = strongly disagree (minimum) 4 = fully agree (maximum) |
| LOC_2 | Total item score (mean of all items) of the subscale for “loss of control” (LOC) of the Modern Technology Attitude Index (MTAI) * at the SECOND time of enquiry | 1 = strongly disagree (minimum) 4 = fully agree (maximum) |
| BAE_1 | Total item score (mean of all items) of the subscale for “benefit and easement” (BAE) of the Modern Technology Attitude Index (MTAI) * at the FIRST time of enquiry | 1 = strongly disagree (minimum) 4 = fully agree (maximum) |
| BAE_2 | Total item score (mean of all items) of the subscale for “benefit and easement” (BAE) of the Modern Technology Attitude Index (MTAI) * at the SECOND time of enquiry | 1 = strongly disagree (minimum) 4 = fully agree (maximum) |
| SSK_PRE | Total score of subject-specific knowledge (SSK) pre-test | 1 = 100% correct answers 0 = 100% incorrect answers |
| SSK_PST | Total score of SSK post-test | 1 = 100% correct answers 0 = 100% incorrect answers |
| SSK_ACQ | SSK acquisition = [SSK_PST] – [SSK_PRE] | [X] * 10 = SSK acquisition in % |

*Modern Technology Attitude Index (see Bengel & Peter, 2021)