



## WP1 – Adapted Items for DIMI, for 9-11 years

### DIMI citation:

Laaber, F., Florack, A., Koch, T., & Hubert, M. (2023). Digital maturity: Development and validation of the digital maturity inventory (DIMI). *Computers in Human Behavior*, 143, 107709. <https://doi.org/10.1016/j.chb.2023.107709>

The goal of the adaptation was to simplify the wording of the items for younger children, as some reported poor understanding of these items.

In translating these items, please consider how they could be phrased in an easy way in the respective language, which children at age 9 could understand.

Variable	Danish	English
literacy_1_young	Jeg ved, hvordan man ændrer privatindstillingerne (fx slå cookies fra)	I know how to change the privacy settings (for example, turn off cookies)
literacy_2_young	Jeg ved, hvordan man ændrer privatindstillingerne for sociale medier (fx hvem kan se ting omkring mig på Instagram, Snapchat eller TikTok)	I know how to change the privacy settings in social media (for example, who can see things about me on Instagram, Snapchat or TikTok)
growth_3_young	lærer jeg nye færdigheder	<i>In German, we had to simplify this item due to the German word for 'skills' being difficult and changed it to "I can teach myself something new". However, in English we concluded that the original version is clear enough. We would ask you to use your own judgement regarding the item difficulty in your language.</i>



emotion_a1_young	og nogen siger noget grimt om mig online eller i en besked, reagerer jeg med det samme uden at tænke på konsekvenserne	and somebody says something bad about me online or in a text, I immediately react without thinking about the consequences
citizenship_2_young	bruger jeg internettet til at støtte ting såsom miljøbeskyttelse eller til at gøre andre mennesker opmærksom på klimaforandringer	I use the internet to support things like environmental protection or to make other people aware of climate change
citizenship_3_young	bruger jeg den til at støtte ting, der virkelig betyder noget i denne verden	I use it to support things that are really important in this world
respect_1_young	og jeg er uenig med en, forsøger jeg på ikke at sige noget ondt	and I disagree with someone, I try not to say anything mean
respect_2_young	tænker jeg på andre menneskers følelser	I think about the feelings of other people

**For more detailed information regarding how to use the DIMI (instructions, labels), please refer to the version for adolescents aged 12-18 years.**

### **SPSS Syntax for the Digital Maturity Score**

#recode reverse scored items

```
RECODE autonomy_c1_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO
autonomy_c1r_young.
EXECUTE.
```

```
RECODE autonomy_c2_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO
autonomy_c2r_young.
EXECUTE.
```

```
RECODE autonomy_c3_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO
autonomy_c3r_young.
EXECUTE.
```



```
RECODE emotion_n1_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO emotion_n1r_young.  
EXECUTE.
```

```
RECODE emotion_n2_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO emotion_n2r_young.  
EXECUTE.
```

```
RECODE emotion_n3_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO emotion_n3r_young.  
EXECUTE.
```

```
RECODE emotion_a1_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO emotion_a1r_young.  
EXECUTE.
```

```
RECODE emotion_a2_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO emotion_a2r_young.  
EXECUTE.
```

```
RECODE emotion_a3_young (5=1) (4=2) (3=3) (2=4) (1=5) INTO emotion_a3r_young.  
EXECUTE.
```

```
#computing scale scores
```

```
COMPUTE AutonomyChoice_score_young  
=MEAN.2(autonomy_c1r_young,autonomy_c2r_young,autonomy_c3r_young).  
EXECUTE.
```

```
COMPUTE AutonomyWithin_score_young  
=MEAN.2(autonomy_w1_young,autonomy_w2_young,autonomy_w3_young).  
EXECUTE.
```

```
COMPUTE Literacy_score_young  
=MEAN.2(literacy_1_young,literacy_2_young,literacy_3_young).  
EXECUTE.
```

```
COMPUTE Growth_score_young  
=MEAN.2(growth_1_young,growth_2_young,growth_3_young).  
EXECUTE.
```

```
COMPUTE Risk_score_young =MEAN.2(risk_1_young,risk_2_young,risk_3_young).  
EXECUTE.
```

```
COMPUTE EmoNeg_score_young  
=MEAN.2(emotion_n1r_young,emotion_n2r_young,emotion_n3r_young).  
EXECUTE.
```

```
COMPUTE EmoAgg_score_young  
=MEAN.2(emotion_a1r_young,emotion_a2r_young,emotion_a3r_young).  
EXECUTE.
```



```
COMPUTE Support_score_young  
=MEAN.3(support_1_young,support_2_young,support_3_young,support_4_young).  
EXECUTE.
```

```
COMPUTE  
Respect_score_young=MEAN.3(respect_1_young,respect_2_young,respect_3_young,resp  
ect_4_young).  
EXECUTE.
```

```
COMPUTE Citizenship_score_young  
=MEAN.2(citizenship_1_young,citizenship_2_young,citizenship_3_young).  
EXECUTE.
```

#Creating weighted dimension scores using the mean scores of expert importance rating  
(as seen in Rijdsdijk et al., 2007).

```
COMPUTE Literacy_Pweighted_young =10.17 * Literacy_score_young.  
EXECUTE.
```

```
COMPUTE Growth_Pweighted_young =10.43 * Growth_score_young.  
EXECUTE.
```

```
COMPUTE AutonomyC_Pweighted_young =9.91 * AutonomyChoice_score_young.  
EXECUTE.
```

```
COMPUTE AutonomyW_Pweighted_young =9.39 * AutonomyWithin_score_young.  
EXECUTE.
```

```
COMPUTE EmotionN_Pweighted_young =10.30 * EmoNeg_score_young.  
EXECUTE.
```

```
COMPUTE EmotionA_Pweighted_young =9.91 * EmoAgg_score_young.  
EXECUTE.
```

```
COMPUTE Risk_Pweighted_young =11.73 * Risk_score_young.  
EXECUTE.
```

```
COMPUTE Citizenship_Pweighted_young =8.47 * Citizenship_score_young.  
EXECUTE.
```

```
COMPUTE Respect_Pweighted_young =10.30 * Respect_score_young.  
EXECUTE.
```

```
COMPUTE Support_Pweighted_young =9.39 * Support_score_young.  
EXECUTE.
```

#creating composite measure by adding the weighted dimension scores



```
COMPUTE DigMat_Pcomposite_young =(Literacy_Pweighted_young +  
Growth_Pweighted_young + AutonomyC_Pweighted_young +  
  AutonomyW_Pweighted_young + EmotionN_Pweighted_young +  
EmotionA_Pweighted_young + Risk_Pweighted_young + Citizenship_Pweighted_young  
+  
  Respect_Pweighted_young + Support_Pweighted_young).  
EXECUTE.
```

