Attachment 1: Original Nir	U-Raster (Stinken-Rösner	et al., 2020)
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	A. Reasoning about science-related contexts	B. Learning scientific content	C. Doing science	D. Learning about science
I. Embrace diversity	1. Which science-related contexts are stimulating and relevant for all learners?	1. Which contents are relevant for all learners?	1. Which processes and procedures of doing science are relevant for all learners?	1. Which aspects of learning about science are relevant for all learners?
	2. Which dimensions of diversity play a role in reasoning about the science-related context?	2. Which dimensions of diversity play a role in learning the scientific content ?	2. Which dimensions of diversity play a role for doing science ?	2. Which dimensions of diversity play a role for learning about science ?
	3. Which individual conceptions, skills, and beliefs of learners are related to (reasoning about) the science-related context ?	3. Which individual conceptions, skills, and beliefs of learners are related to learning the scientific content ?	3. Which individual conceptions, skills, and beliefs of learners are related to doing science ?	3. Which individual conceptions, skills, and beliefs of learners are related to learning about science?
	4. Which knowledge, skills, and experiences of learners can be seen as resources for (reasoning about) the science-related context?	4. Which knowledge, skills, and experiences of learners can be seen as resources for learning the scientific content?	4. Which knowledge, skills, and experiences of learners can be seen as resources for doing science?	4. Which knowledge, skills, and experiences of learners can be seen as resources for learning about science?
II. Recognize barriers	1. What are barriers and/or challenges for learners when reasoning about the science-related context ?	1. What are barriers and/or challenges for learners when learning the scientific content?	1. What are barriers and/or challenges for learners when doing science ?	1. What are barriers and/or challenges for learners when learning about science ?
III. Enable participation	1. How can (reasoning about) the science- related context be made accessible to all learners?	1. How can (learning) the scientific content be made accessible to all learners?	1. How can doing science be made accessible to all learners?	1. How can learning about science be made accessible to all learners?
	2. How can the existing resources be used to overcome the barriers or challenges when reasoning about the science-related context ?	2. How can the existing resources be used to overcome the barriers or challenges when learning the scientific content ?	2. How can the existing resources be used to overcome the barriers or challenges when doing science ?	2. How can the existing resources be used to overcome the barriers or challenges when learning about science ?
	3. How can all learners be actively engaged when reasoning about the science-related context ?	3. How can all learners be actively engaged when learning the scientific content ?	3. How can all learners be actively engaged when doing science ?	3. How can all learners be actively engaged when learning about science ?
	4. How can (all) learners be encouraged to co- construct and collaborate when reasoning about the science-related context ?	4. How can (all) learners be encouraged to co- construct and collaborate when learning the scientific content?	4. How can (all) learners be encouraged to co- construct and collaborate when doing science?	4. How can (all) learners be encouraged to co-construct and collaborate when learning about science ?
	5. How can all learners be individually supported when reasoning about the science-related context ?	5. How can all learners be individually supported when learning the scientific content ?	5. How can all learners be individually supported when doing science ?	5. How can all learners be individually supported when learning about science?