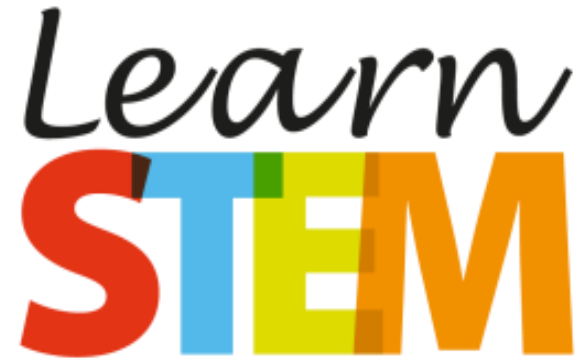
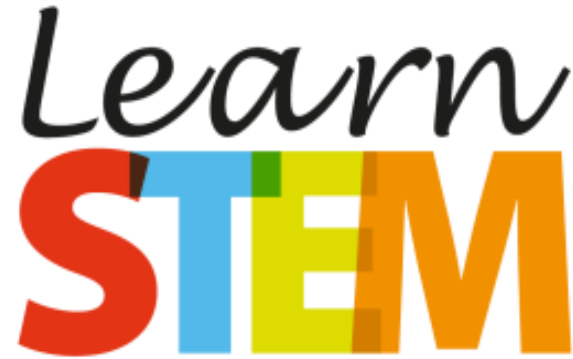


# Learn STEM Online Course



## Week 4: Innovative STEM Assessment

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# Week 4: Innovative STEM Assessment

1. Discussing key questions of innovative STEM assessment
2. Analysing four aspects of innovative STEM assessment
3. Testing innovative assessment instruments and tools




# 1. Discussing key questions of innovative STEM assessment

# Discussing key questions

## Key questions of STEM assessment:

- Why do you assess?
- Who should do the assessment?
- What do you assess?
- How do you assess?



## 2. Analysing four aspects of innovative STEM assessment

# Four aspects of STEM assessment

The four aspects of STEM assessment in detail:

- Why do you assess?
- Who should do the assessment?
- What do you assess?
- How do you assess?




# 3. Testing innovative assessment instruments and tools



# Testing assessment instruments & tools

1. Plickers
2. ZipGrade
3. Badgecraft

Please remember our important warning on privacy and data protection (from week 3) for you as teacher!



# Literature and materials

# Literature

- Stracke, C. M., Tan, E., Texeira, A., Pinto, M., Vassiliadis, B., Kameas, A., Sgouropoulou, C., & Vidal, G. (2018). *Design and Quality of Online Courses. The Checklist for Beginners*. Online available at [www.mooc-quality.eu/online-courses-checklist-beginners](http://www.mooc-quality.eu/online-courses-checklist-beginners)
- Stracke, C. M., Tan, E., Texeira, A., Pinto, M., Vassiliadis, B., Kameas, A., Sgouropoulou, C., & Vidal, G. (2018). *Design and Quality of Online Courses. The Quality Criteria for Experts*. Online available at [www.mooc-quality.eu/online-courses-quality-criteria-experts](http://www.mooc-quality.eu/online-courses-quality-criteria-experts)
- Stracke, C. M., van Dijk, G., Fassen, J., Lisdat, F., & Simoens, W. (2020). A Holistic Pedagogical Model for STEM learning and education inside and outside the classroom. In *HCI International 2020 Conference Proceedings. Springer Lecture Notes in Computer Science (LNCS)*. (accepted, in print).

# Literature

And some recommendations for further reading:

- Clarke, N., (2019), *Leren zichtbaar maken met Formatieve evaluatie* (3e ed.). Rotterdam, Nederland: Bazalt.
- <https://knowingbelievingdoing.wordpress.com/the-power-of-self-and-peer-assessment/>
- [http://learn-stem.org/wp-content/uploads/2019/03/20190301\\_Learn\\_STEM\\_Inquiry\\_Learning\\_Package\\_v10.pdf](http://learn-stem.org/wp-content/uploads/2019/03/20190301_Learn_STEM_Inquiry_Learning_Package_v10.pdf)
- <https://www.kdg.be/onderzoek-en-expertise/formatieve-evaluatie-een-toolbox-vol-inspiratie>
- <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.532.4&rep=rep1&type=pdf>

# Materials

You can find all materials of week 4  
in our shared online folder:

<https://surfdrive.surf.nl/files/index.php/s/lBlcN3cyMGJzhnp>

# Contact

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