

Table S1. List of acronyms

Acronym	Explanation
AK	Assessment Knowledge
CK	Content Knowledge
PK	Pedagogical Knowledge
PCK	Pedagogical-Content Knowledge
CBL	Context-Based Learning
ESD	Education for Sustainable Development
SDG	Sustainable Development Goals
OPM	Object-Process Methodology
OPL	Object-Process Language
OPD	Object-Process Diagram

Table S2. Teachers' links to the video clips in their self-developed tasks

Participant	Links to the videos, in the order they appear in the task
Benny	1. https://www.youtube.com/watch?v=bRVep9uWQu0&list=PL7H3hAs1csPj5Gt2PHJT_HqQQo6IzzSjn&index=13 2. https://www.youtube.com/watch?v=KwEglxQmclY&list=PL7H3hAs1csPj5Gt2PHJT_HqQQo6IzzSjn&index=14 3. https://www.youtube.com/watch?v=Ae2dlC6QRnI&list=PL7H3hAs1csPj5Gt2PHJT_HqQQo6IzzSjn&index=15 4. https://www.youtube.com/watch?v=lXlhVjeih8c&list=PL7H3hAs1csPj5Gt2PHJT_HqQQo6IzzSjn&index=20
Leila	1. https://youtu.be/IrdClMFGIMs 2. https://youtu.be/vugvSlgnZ9o 3. https://youtu.be/Rf3L4a_DtCI 4. https://youtu.be/bRVep9uWQu0 5. https://youtu.be/aieNV3V4b_s 6. https://youtu.be/dI1_eM2URdk 7. https://youtu.be/zfD5X4GIVYk
Dan	Dan did not include videos, so he lost points on the visual representations attribute.