

We are the makers – IoT Learning Scenario – Embedding sensors

1. Title of the Scenario	Embedding sensors cases
2. Target group	12-17 year old
3. Duration	2 or 3 days
4. Learning needs	
5. Expected learning outcomes	Understanding sensors, and their importance for electronics in general Understanding tolerances, and how to design for them. Pausing a print, understanding unique capabilities of production method.
6. Methodologies	Build measure learn, design thinking, project-based learning
7. Place / Environment	Makerspace or similar.
8. Tools / Materials / Resources	Micro controller (microbit, arduino, or similar), LED's, Photosensor, 3D printer, Calipher, PC's etc.
9. Step by step description of the activity / content	Divide class into groups Present the cases Allow the students to work on it in groups, helping them along the way
10. Feedback	
11. Assessment & Evaluation	- Presentations that can be graded if appropriate.