

Maker Cards

Evaluating Design Cards for Teaching Physical Computing to Middle-School Girls

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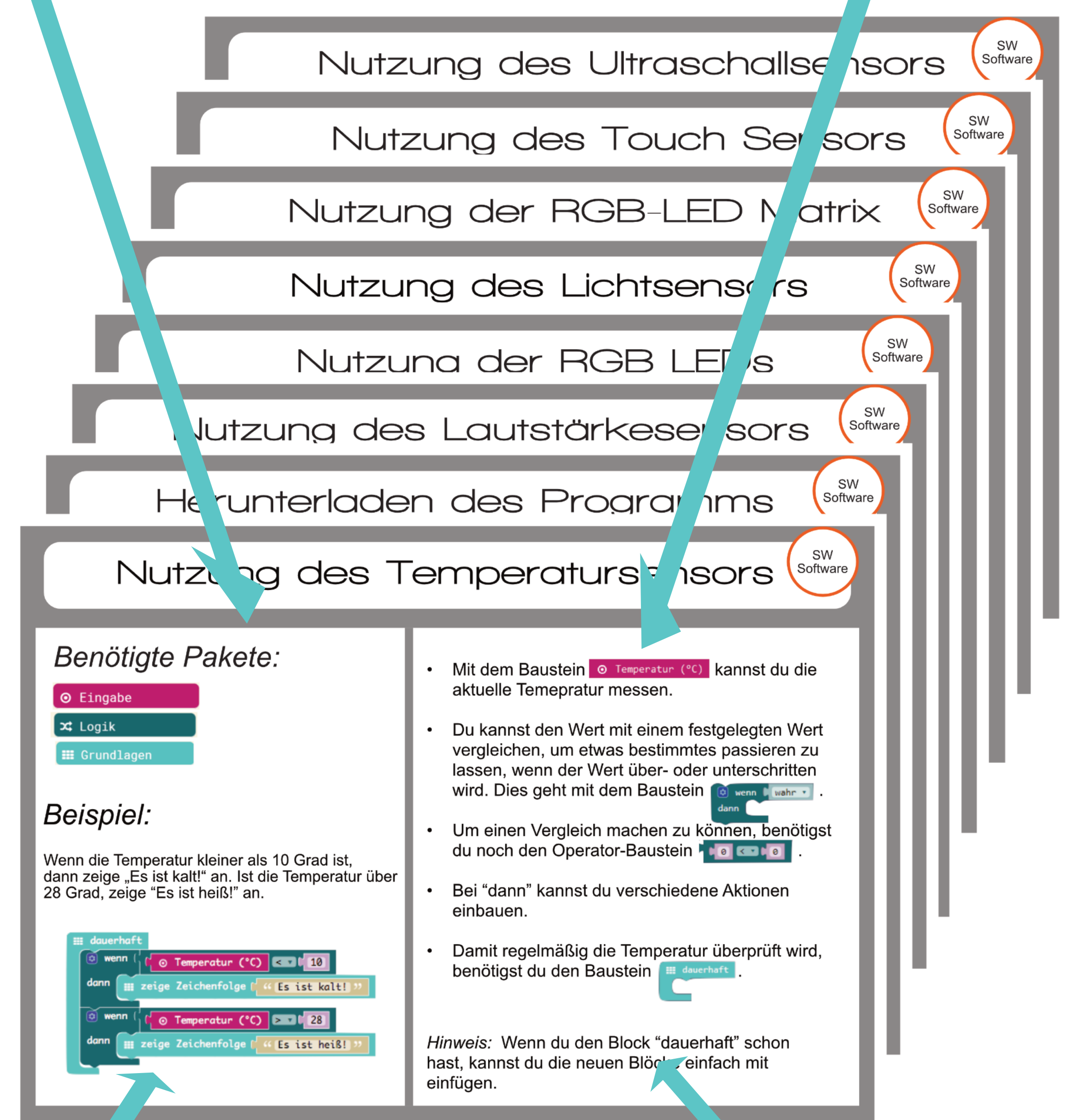
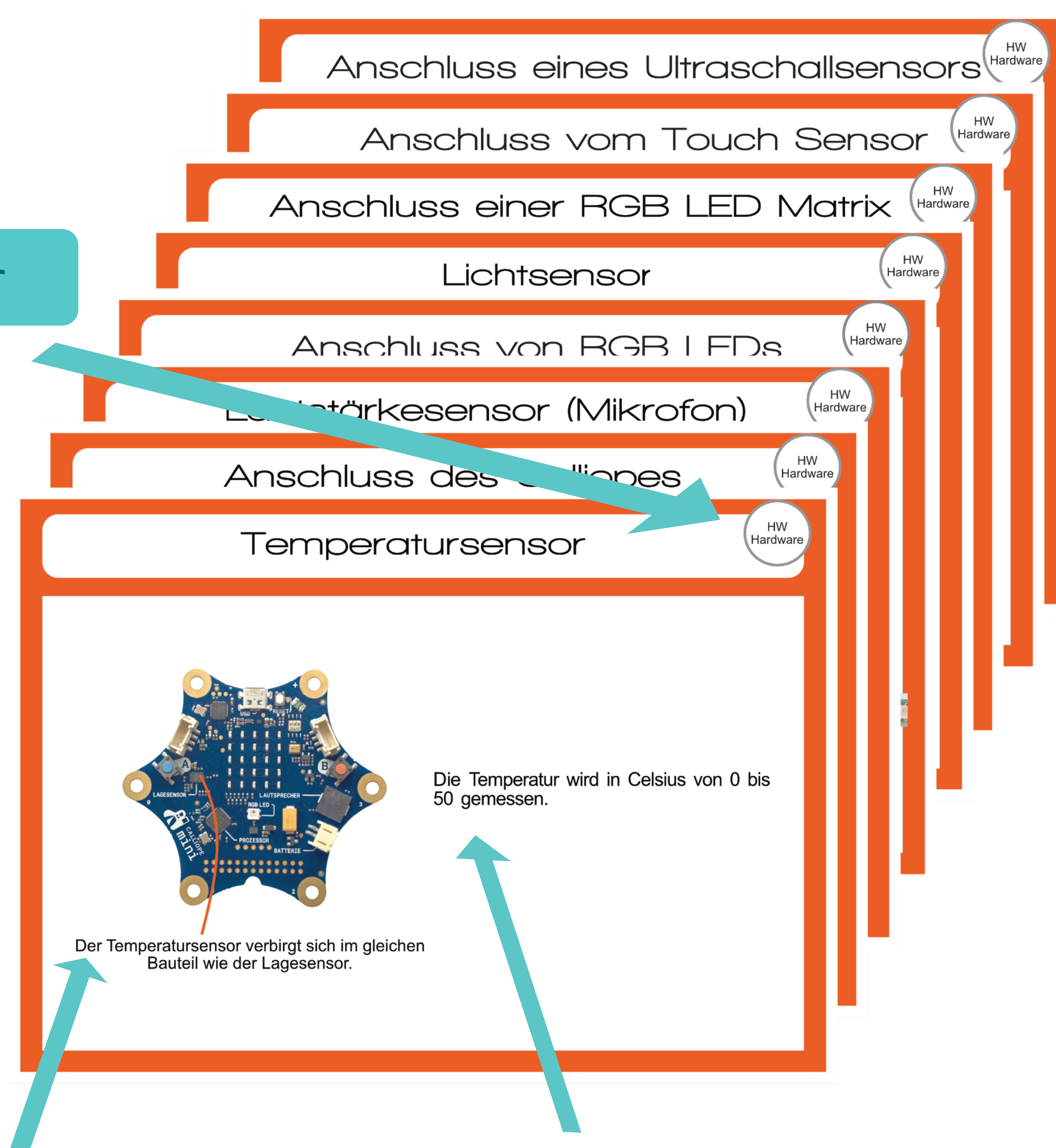
Goal

- Make physical computation knowledge accessible to middle-school girls
- Intercept standard questions

Necessary packages

Explanations of the blocks

HW/SW identifier



Sensor location

Value range

Example and description

Hints

Observation of 54 middle-school girls (aged 10 - 14) during making activities in several workshops

Results

- Helpful to get started on programming their own artefacts
- They program first examples and transfer them to their own ideas
- They used the hardware aspects, example programs, and the necessary packages
- Not clear for the girls how to combine the sensor and actuator cards