

# Cultivating Teachers Ability to Conduct Maker Activities

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## Research Goal and Question

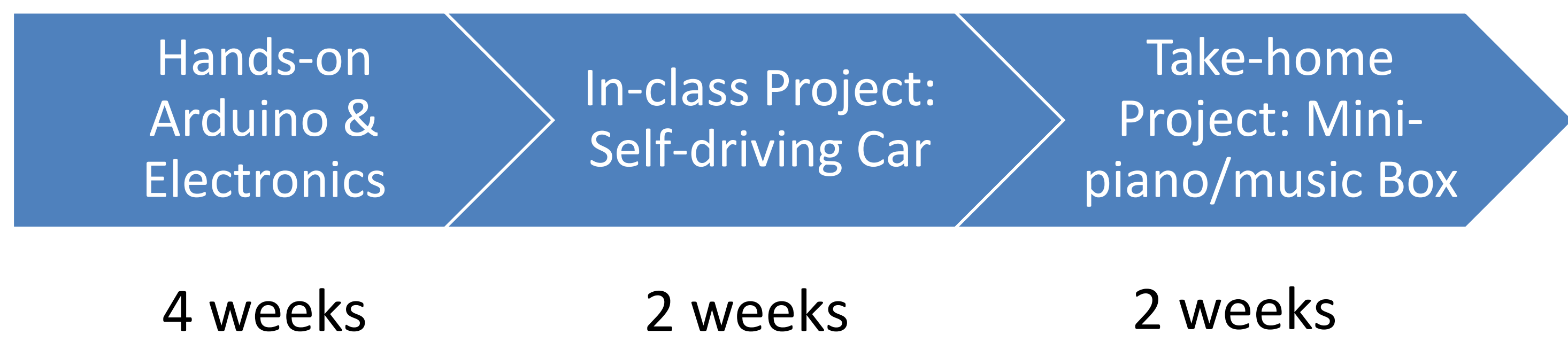
Help busy teachers learn to become a Maker and to devise Maker related teaching lessons.

How confident are the teachers in implementing Maker lessons before and after attending our hands-on workshop?

## Experimental Setup

### Timeline

Eight 3-hour sessions over 10 weeks  
Class meets on weeks 1-4, 6-7, 9-10



### Subjects

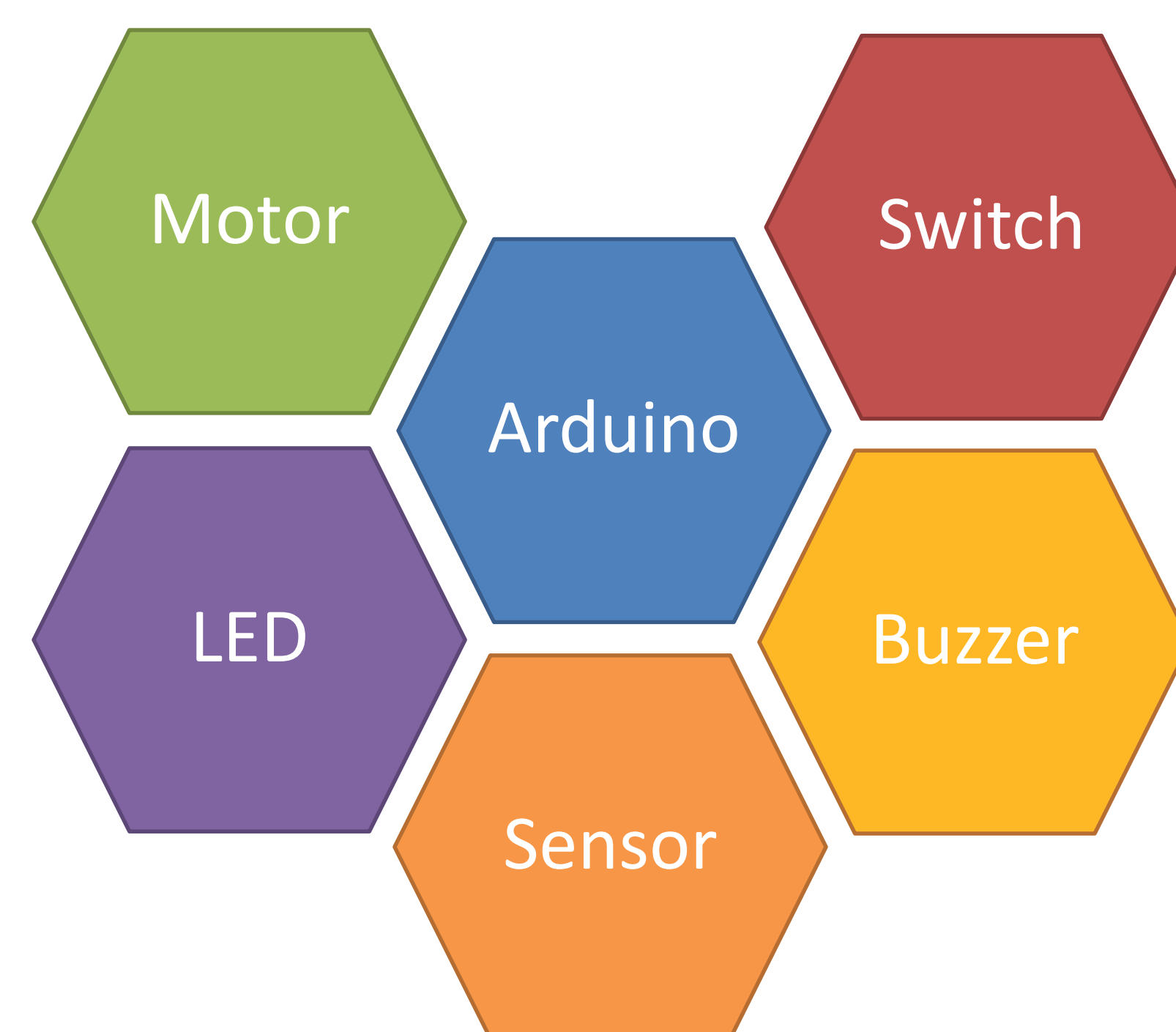
16 K-9 subject teachers

### Assessment

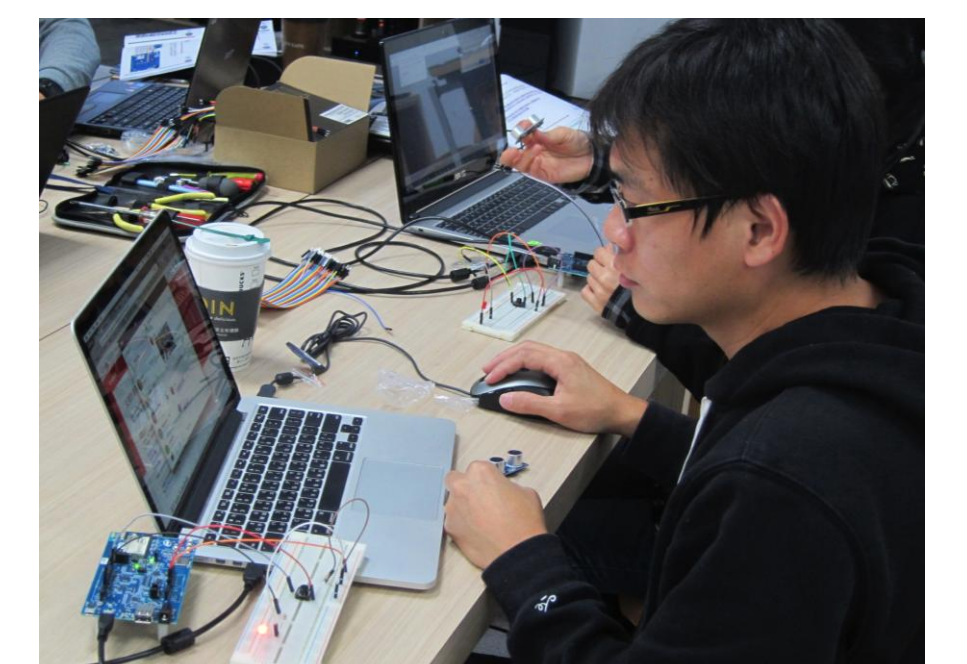
Questionnaires at the end of each stage.

## 3-Stage Teacher Training Program

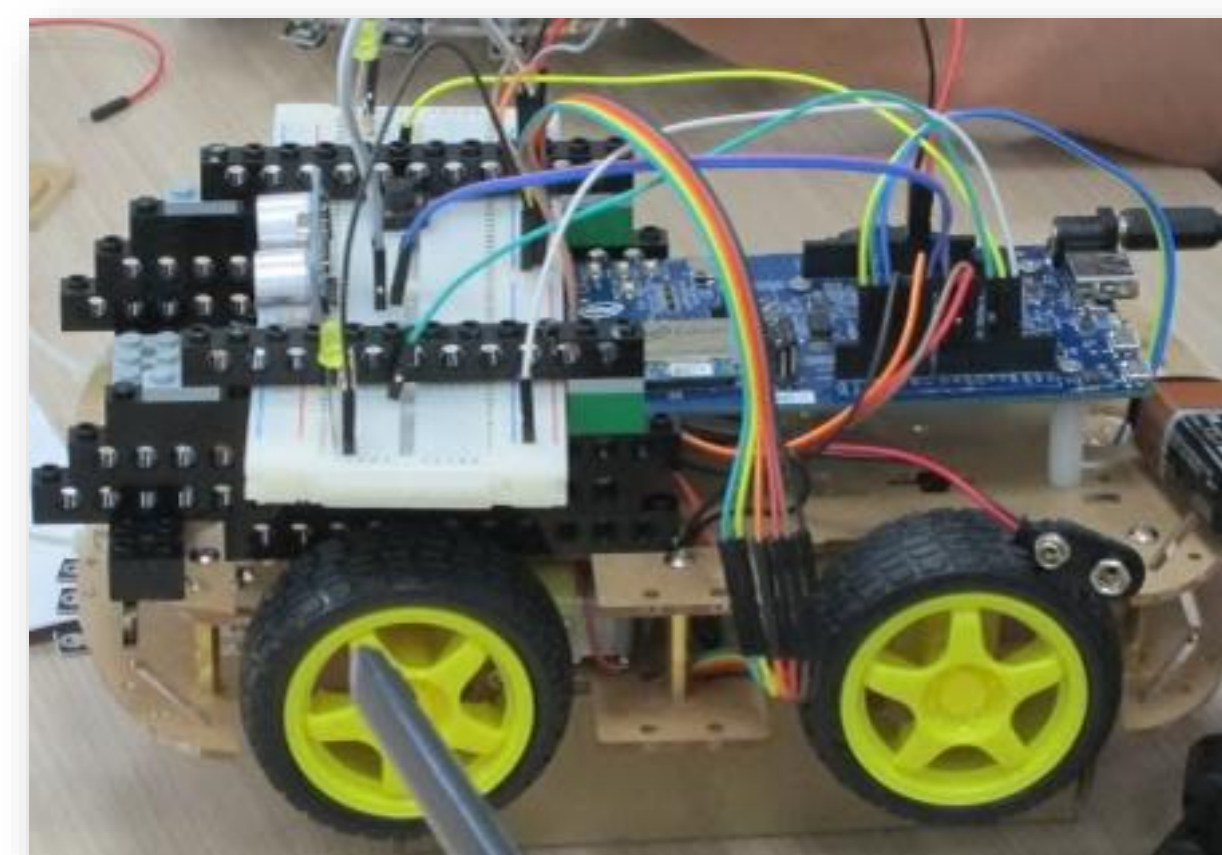
### Stage 1 – Arduino Basics



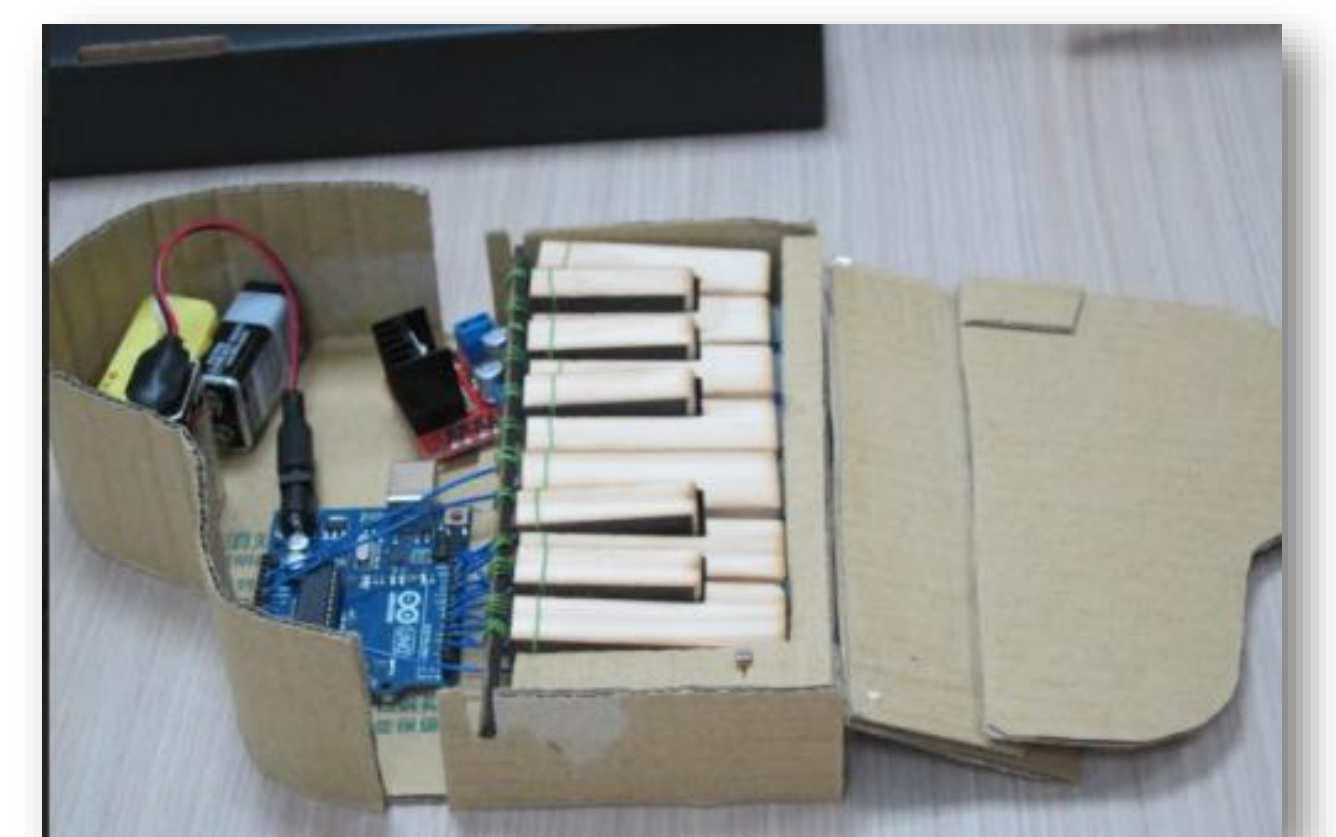
Hands-on with  
Arduino and  
Electronics



### Stages 2 & 3 – Arduino Projects



Arduino-based  
Self-driving Car



Arduino-based  
Mini-piano/music Box

## Result

Confident about carrying out maker project

Confident about designating and implementing maker activities

