

## Summary

# My Concrete Box Toolkit

### A. Main topics

- Usage of secondary raw materials in construction
- Usage of natural raw materials in construction
- Difference between virgin and secondary raw materials
- Difference between renewable and non-renewable materials

### B. targeted audience

- 10-19 years old students

### C. Key concepts

- Learning by doing
- Hands-on experiment
- Demonstration
- Observation



### D. Experimental activity

Creation of a sustainable concrete mixture, which is poured into a mould to make a useful everyday objects (pencil holder, candle holder, plant pot). The activity includes preparation work, mixing of the ingredients, pouring into a mould form, observation of the curing process of the mixture, removal of the mould.

### E. Toolkit material

- |                     |                                  |
|---------------------|----------------------------------|
| ● Cement            | ● Gloves                         |
| ● Fly ash           | ● Paper towel                    |
| ● Recycled concrete | ● Mask                           |
| ● Sand              | ● Goggles                        |
| ● Oil               | ● Mixer/Spoon                    |
| ● Jute fibres       | ● Brush                          |
| ● Water             | ● Scissors                       |
| ● Measuring jar     | ● Step-by-step guideline booklet |
| ● Mixing pot        |                                  |

### F. RM Tutors

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