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

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