



## BotSTEM – Erasms+ KA2 Project

2017-1-ES01-KA201-038204

### Good practice template

<b>1. Title of the activity / practice</b>	<b>Building with stones</b>
<b>2. Origin of the activity</b>	<p>The house is the first space explored by children. It is a familiar place that, very early, they seek to represent and of which they like to speak.</p> <p>This activity should lead them to have other perspective of their home by apprehending it as a technical object. For this, different activities will lead them to familiarize with materials and construction processes.</p> <p>By comparing buildings at different times and places, children will also be encouraged to conserve their heritage, as well as discover and respect other ways of life.</p> <p>Correlatively, the proposed sequences will make it possible to work the senses (observation, touch, balance), and to develop linguistic learning and cooperation.</p>
<b>3. Age of the students</b>	5-8
<b>4. Target group (type of the learners, size of the group)</b>	General curriculum Small group of 2 -3
<b>5. School subjects + topics concerned</b>	Transdisciplinaire; physics, engeneering, design, technology
<b>6. Educational goals of the practice</b>	Know the usefulness of a house and the different types of houses. Know materials and construction techniques. Learn about the properties of rocks: classifying stones and naming rocks – learning about techniques of assembling stones - making clay bricks.
<b>7. Duration</b>	15 sessions
<b>8. Place</b>	Classroom / outdoor /at home, etc.



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<p><b>9. Short description of the activity</b></p>	<p>In sequence 1, that should last 3 sessions, we address the theme about houses from here and elsewhere (what is a house for?; houses elsewhere; imaginary houses)</p> <p>In sequence 2, we address building materials (the materials of the houses here and the materials of houses elsewhere). In sequence 3, that should last 2 sessions, the provenance of stones are discussed, through the visit, if possible, of a quarry). Sequence 4, that should last around 3 sessions, we will address the properties of the rocks (compare stones; Testing Rock Properties). In sequence 5, we begin with the building with atones (stacking and join stones) In this sequence, the advice of a mason would be introduced. In sequence 6, children are going to make bricks—with earth, clay, concrete and mud.</p>
<p><b>10. Evaluation</b></p>	<p>Questions , teacher's observation</p>
<p><b>11. Materials / Resources / technical requirements</b></p>	<ul style="list-style-type: none"> <li>- samples of building materials and rocks</li> <li>- tissues</li> <li>- tools for abrading the stones: sandpaper, graters, files, abrasive sponges</li> <li>- cardboard boxes numbered and pierced, on the side, with a hole large enough to allow the passage of a child's hand.</li> <li>- about 30 objects, cube shaped, foam bricks or plastic EPS material or large single and double Lego bricks.</li> <li>- earth, gravel, cement, water</li> <li>- sieve to remove gravel: beach strainer, colander ...</li> <li>- clay loaf that has been allowed to air dry completely</li> <li>- containers to prepare the mixture</li> <li>- molds: parallelepiped shaped receptacles.</li> <li>- containers for dosing quantities: drug bottle caps, detergents ...</li> <li>- large basin of water to rinse hands quickly and dish towel.</li> </ul>
<p><b>12. Tips for educators / theoretical background (if applicable) or curriculum context</b></p>	<p>Source URL:</p> <p><a href="https://www.fondation-lamap.org/fr/page/20225/construire-avec-des-pierres-en-gs">https://www.fondation-lamap.org/fr/page/20225/construire-avec-des-pierres-en-gs</a></p> <p>this materail is included in <b>La main a la pate</b> project</p>