

TEACHER'S GUIDE: Aura Serban, Cambridge School of Constanta, Romania

TITLE: *Solids- Mathematics 3rd grade*

Context and Prior Knowledge: *This is the 4th lesson on solids. It has the purpose to revise all taught concepts. Next lesson SS will have a test on solids.*

Age- 8-9 years

LESSON STEPS

<p>1. 6min</p>	<p>Introduction to the topic</p> <p>T gives each kid an envelope with some puzzles inside. SS have to match the pieces of the puzzle according to the name of the solid with the image of a form from real life</p> <p>Worksheet 1</p> <p>SS are presented with the topic of the lesson: Solids.</p>
<p>2. 4 min</p>	<p>Revision of the previous knowledge</p> <p>SS are asked to answer few questions like what other solids they have learnt the lesson before.</p> <p>SS are asked to close their eyes and imagine the solids the T names: cone, pyramid, sphere, cylinder, cube, rectangular prism. If they can't imagine one, or forgot how it looks, they have to raise their hand and the T will explain it again.</p>
<p>3. 10 min</p>	<p>Group activity</p> <p>T asks the SS to sit in groups of 3 or 4. They will get a worksheet, play dough and tooth picks. They have to build the solids listed in the worksheets and write down all the properties of each solid as learnt in the previous classes.</p> <p>Worksheet 2</p> <p>SS have to cut the worksheet and label each solid with the names and properties from the worksheet.</p> <p>After all SS have finished, they will go around other desks to see if all the worksheets are done properly (the same with what they thought it should be like) and if all the play dough/ tooth picks shapes look the same. After confronting theirs with the ones from other groups, T solves the worksheet together with the SS.</p>

<p>4. 15 min</p>	<p>Pair activity</p> <p>T gives the SS an envelope where they have 2 pictures with the solids learnt (cube and rectangular prism, sphere and cone, or any other way; all mixed up), and an A3 paper with Venn diagram on it.</p> <p>Worksheet 3 Worksheet 4</p> <p>SS have to write in as many common properties or different properties that solids have. On the outside layer of the circle from the Venn diagram, SS have to write at least 10 names of products that have the shape of the solids they have to work with.</p> <p>After finishing, SS will come in front and present their work.</p>
<p>5. 3 min</p>	<p>Class activity</p> <p>SS will listen to a song (3d shapes that I know- https://www.youtube.com/watch?v=U18EzaUde8o), where examples from real life are given.</p> <p>Other examples will be given by SS</p>
<p>6. 5 min</p>	<p>Single activity</p> <p>Each SS will complete an evaluation test, that will be collected by the T and discussed upon in the next class.</p> <p>Worksheet 5</p>
<p>7. 2 min</p>	<p>Feedback</p> <p>Final appreciations will be made. As homework, kids will have to create a big solid from paper and bring it to school.</p>