LO1 STEM in Action

"MY BEST" - STEM LESSON

We are not looking for detailed lesson plans – just great ideas, lessons that go well (with why) and unusual ideas and approaches. The idea is to inspire others.

Lesson Plans

<table>
<tr><td>Lesson Title</td><td>Various units of volume</td></tr>
<tr><td>STEM Topic</td><td>Science – Technology – Engineering – Maths – STEM (ALL)
(Circle as appropriate)</td></tr>
<tr><td>Aims of the Session
(Links to curriculum and qualifications?)</td><td>Exercise on unit conversions.
Related to Physics and Chemistry.</td></tr>
<tr><td>Group and Age</td><td>12-13</td></tr>
<tr><td>Lesson Description

- Key ideas and/or novel approaches</td><td>Give the students an exercise sheet. The task is to colour in cells with the same value.

1) Match two:
<table>
<tr><th></th><th>A</th><th>B</th><th>C</th><th>D</th></tr>
<tr><td>4</td><td>200 mm^3</td><td>200000 cm^3</td><td>980 cm^3</td><td>9,8 dm^3</td></tr>
<tr><td>3</td><td>0,75 m^3</td><td>46 mm^3</td><td>0,75 dm^3</td><td>46 dm^3</td></tr>
<tr><td>2</td><td>750 cm^3</td><td>0,0002 dm^3</td><td>0,0098 m^3</td><td>46000 cm^3</td></tr>
<tr><td>1</td><td>0,98 dm^3</td><td>750000 cm^3</td><td>0,046 cm^3</td><td>0,2 m^3</td></tr>
</table>
2) Match three:
<table>
<tr><th></th><th>A</th><th>B</th><th>C</th><th>D</th></tr>
<tr><td>4</td><td>0,2 ml</td><td>200 dm^3</td><td>980 ml</td><td>2000 l</td></tr>
<tr><td>3</td><td>9800 cm^3</td><td>980 l</td><td>46 dm^3</td><td>0,046 l</td></tr>
<tr><td>2</td><td>980 cm^3</td><td>0,98 m^3</td><td>20 hl</td><td>200 l</td></tr>
<tr><td>1</td><td>0,46 hl</td><td>46 cm^3</td><td>0,2 cm^3</td><td>9,8 l</td></tr>
</table></td></tr>
</table>

	3) Match three: <table><tr><th></th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th></tr><tr><td>5</td><td>360 ml</td><td>360 mm^3</td><td>0,75 l</td><td>0,75 hl</td><td>6,7 m^3</td></tr><tr><td>4</td><td>750 mm^3</td><td>6700 cm^3</td><td>3,6 hl</td><td>67 hl</td><td>75000 cm^3</td></tr><tr><td>3</td><td>0,75 dm^3</td><td>0,36 cm^3</td><td></td><td>0,36 l</td><td>6,7 dm^3</td></tr><tr><td>2</td><td>0,75 ml</td><td>75 l</td><td>360 cm^3</td><td>750000 mm^3</td><td>0,36 ml</td></tr><tr><td>1</td><td>360 l</td><td>6,7 l</td><td>6700 l</td><td>0,36 m^3</td><td>0,00075 l</td></tr></table>
What do you like about this session?	The young students enjoy colouring in the tables. They can work in couples.
How does this Lesson cater for women or students from a minority ethnic background	The task is neutral. No differences to make.
Any other comments or suggestions	If you do not manage to complete all three tables, you can assign one of them as homework.