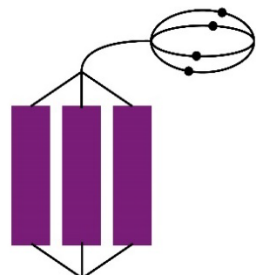






# SOLO taxonomy

What is SOLO taxonomy?  
 Education in Chemistry  
[rsc.li/EiC-solo](http://rsc.li/EiC-solo)

| Stage   | What you know  | At this level, you can ...   | When asked 'What is atomic mass?', you might say something like ...  |
|---|--|--|--|
| <br>Extended abstract  | You can apply your knowledge of this topic to other topics and can see how different topics link together. | Create<br>Formulate<br>Generate<br>Hypothesise<br>Reflect<br>Theorise<br>Generalise<br>Predict<br>Evaluate | Atomic masses can be used to balance equations.<br>You can work out empirical formulae from atomic masses and experimental data.<br>A balanced equation and experimental data can be used to work out percentage yield and therefore evaluate an experimental method.  |
| <br>Relational        | You can see the big picture. You can link together all the things you know about the topic.                | Analyse<br>Apply<br>Argue<br>Compare and contrast<br>Criticise<br>Relate<br>Justify                        | Atomic masses of elements can be decimals to accommodate isotopes.<br>Relative atomic mass can be calculated from the atomic masses of isotopes and relative abundance.<br>The atomic mass of a molecule is the sum of the atomic masses of its constituent atoms.<br>Mass is conserved in chemical reactions. |
| <br>Multi-structural | You know several pieces of information to do with the topic, but can't link them together yet.             | Combine<br>Describe<br>Enumerate<br>List<br>Classify<br>Follow the multiple steps in this procedure        | The periodic table contains information about elements.<br>The atomic mass of an element in grams is the mass of one mole of those atoms.<br>Atomic mass is equal to the number of protons and neutrons in an element's nucleus.   |
| <br>Uni-structural   | You know one or two isolated bits of information about the topic   | Identify<br>Name<br>Recall<br>State<br>Follow a simple procedure   | Matter is made up of atoms.<br>Different kinds of atoms are called elements.<br>Atoms are made up of protons, neutrons and electrons.  |
| <br>Pre-structural   | You are not confident with any aspect of this topic and need lots of teacher support.                      |  | I don't know.  |