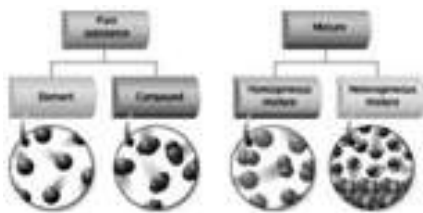


# Resource Catalogue - Chemistry

## Elements, Compounds & Mixtures. Class VIII

### 1. Classify materials into pure substances and mixtures

Sorting the Beads: Are there other ways to classify matter other than solids, liquids and gases? This is a fun chemistry class, where using beads, students will learn about pure substances and mixtures on the basis of their atomic arrangement. At the end of the class, they will be able to define elements, compounds and mixtures.



<http://wiki.coe.jmu.edu/MSME/admin/download.tml?attachid=2188949>

Elements, Compounds & Mixtures: What is a pure substance according to a scientist? How do we differentiate between pure substance and mixtures? This video has a simple explanation along with examples, and makes it easy for us to understand...



<https://www.youtube.com/watch?v=IDNpCAFKhqY>

What is a mixture? What's in macaroni salad? Break down the pasta, mayonnaise, vinegar, mustard, vegetables, etc., and you're left with a bunch of molecules. The video uses a delicious recipe to exemplify three types of mixtures (solution, colloid and suspension), while reminding us that we're all made of the same stuff. <https://www.youtube.com/watch?v=Vt7IN4QPU0k>

### 2. Understand that groups of element have similar properties and are arranged in the periodic table accordingly

A lesson about every single element of the periodic table - This website link has lessons on every element of the periodic table. These lessons include facts and properties of the element and some fun experiments.

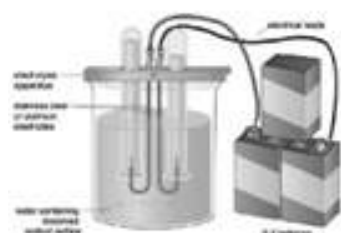
<http://ed.ted.com/periodic-videos>



The (truly) Periodic Table is an animated film that tells you everything you ever wanted to know about the Periodic Table.

<https://www.youtube.com/watch?v=xd4-Uy2FLWc>

### 3. Differentiate between elements and compounds on the basis of the types of particles which these are made

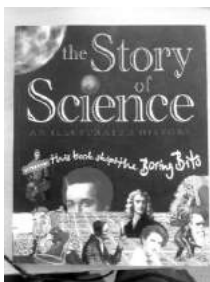


Splitting a compound - Electrolysis of water: Ever thought that water could be further split into its component? Time we tried it out in class..! To add more fun to it, this video demonstrates how to make a Hydrogen balloon through water electrolysis.

[https://www.youtube.com/watch?v=gZIEDe\\_HUcw](https://www.youtube.com/watch?v=gZIEDe_HUcw)

4. *Appreciate the historical perspective of science - evolution of the modern periodic table from the concept of an atom.*

The Story behind the discovery of Elements - Who were the scientists, whose relentless efforts led to great discoveries and advances in science? How did we arrive at the modern periodic table of elements? This presentation takes us through the important milestones in the History of science.



The Story of Science - A book that is the perfect introduction to science. It has the highlights of 500 years of scientific discovery told in 27 episodes, featuring major scientists, their breakthroughs and the incredible discoveries that changes our understanding of how the world around us works.



Great Ideas of Science - A book that talks about the men in science and the thinking behind them. It is a stimulating, dramatic and informative book about scientifically significant events and creative researchers

5. *Analyze the properties of elements and evaluate its application in our daily lives...*



Inquiry into the uses and properties of elements - An exploration into the properties of the elements based on its uses. Students will investigate, discuss and arrive at the best use of an element based on the set of clues that are provided.