







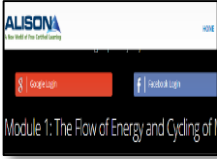

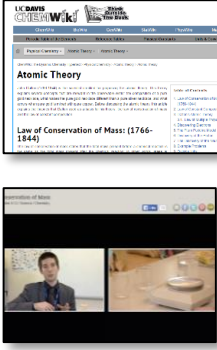

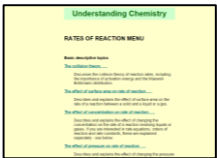
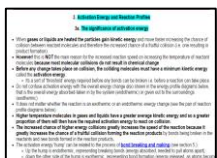









Teacher Learning for New Material

Some content specified in the Learning Outcomes is new. As teachers, it is useful to have some more in-depth knowledge of a topic before we begin to work through it with our students. As we all know, there is a plethora of information on the internet, and searching through it takes time. We felt it might be helpful if we could do some of the searching for you. So as a team of science teachers, with varied educational backgrounds and teaching experience, the JCT science team have selected some websites that we hope will help get you started. We will, in time, develop further aids to assist you in these areas.

Web Link	Learning Outcome(s)	Brief Description
	Nature of Science LO1 and 10	Lots to explore here to help appreciate how scientists work and about the role of science in society. Tip: Check out the rest of the site for lots of valuable information on the Nature of Science.
	Nature of Science LO8	Go to the teaching section, in the drop down menu select classroom activities, to access news articles and related classroom activities.
	Nature of Science LO 7 and 8	Students can develop their communication skills by looking at work developed by other students as published here in the Young Scientists Journal. They can also research topics here and send in work for publication.
	Earth and Space LO 1, LO3	Find out about the celestial bodies in our solar system Tip: select the drop down menu under planets
 	Earth and Space LO 2	Exploring theories of the origin of the universe. Tip: Why not first watch Teachers TV for a good all round explanation and then follow through all the pages on the theory on the “how stuff works” website.

Web Link	Learning Outcome(s)	Brief Description
	Earth and Space LO4	Remember the Jaffa cake advert? Theory of lunar phases and eclipses.
	Earth and Space LO4	A quick recap on the theory of the activity experienced in CPD day 1
	Earth and Space LO5	Follow this link to sign up for a FREE online course which covers aspect of this LO as well as others. Once you sign up you can access many other free online courses
	Earth and Space LO5	When you are finished learning about the water and carbon cycle do explore the rest of this site which has fantastic resources. Tip: Click on the 'related content' tabs on the right to go to related topics, videos and specific resources for teaching and learning
	Chemical World LO1& LO2	A simple explanation of atomic theory and conservation of mass. (It goes on to explain the discovery of the atomic sub-particles if you are interested!) Tip: some interesting video links at the end of the page to illustrate conservation of mass or try this one from TeachingChannel.org.
	Chemical World LO2	Highlights the difference between a physical change and a chemical change. Tip: Click into the different sessions on the left to find lots more resources
	Chemical World LO7	Description of the effects of different variables on rate of chemical reactions. Many examples given which include the production of common gases Tip: Page on collision theory goes on to explain Activation Energy
	Chemical World LO9	Good explanation of activation energy and energy profile diagrams, with lots of examples. Tip: Scroll down past the adverts to get to section 3

Web Link	Learning Outcome(s)	Brief Description
	Chemical World LO10	Information around sustainability, in particular sustainable materials, what this means and examples.
	Physical World LO2 Physical World LO6	An old, but excellent, video for explaining the concept of potential difference
	Biological World LO2	Very nice website to help those who are a bit confused about genetics. Tip: Follow the Home link to find lots more resources for Cell Biology and also, down the bottom of the page there is a link called Teacher Materials worth checking out.
	Biological world LO3 & LO10	Learn all you need to know about evolution and natural selection.
	Biological world LO 10 Sustainability Element	Lots of learning here about World Resources and sustainability. Tip: Be sure to also check out their blog space.
	Element : Sustainability	Video describing the concept of sustainability
	Nature of Science LO6	This 'Safer Internet Use in the Classroom' course was developed with the Webwise (internet safety) team by PDST Technology in Education and includes how to set student online tasks using safer research sources and methods. Tip: follow the links to teachercpd.ie to see relevant dates.

Check back for further updates.