

## Ideas for Starter and Plenary Activities from the ISSEN CD-ROM

This is a starting point for suggestions, since some other adaptable resources are included on the CD-ROM and the ideas for activities/learning games can be applied to other parts of the curriculum (eg Hot Potatoes, Flashcards and Odd One Out). Most resources refer to the "Focus Activities" and "Words, Symbols and Pictures" sections of the CD-ROM and hyperlinks are included (so you can click on a blue title to view the resource). Some of the resources may need further adaptations for particular groups of students. Comments on the resources are very welcome to [adrianfenton@ase.org.uk](mailto:adrianfenton@ase.org.uk)

Key Stage 3 Topic	Resource on the ISSEN CD-ROM	Section of the CD-ROM	Notes
Cells	<a href="#">Bingo Games</a> – Body and Cells Bingo	Words, symbols and pictures	If you do not want to use this as bingo, then the questions could be used on their own. This recaps some of the material from KS 2.
Environment and Feeding Relationships	<a href="#">Supportive Worksheets</a> – Adaptations Summary Sheet	Focus Activities	Page 8 on the pdf resources file.
	<a href="#">Life is Loopy</a> – Environment loop	Words, symbols and pictures	A question and answer quiz game activity.
Acids and Alkalis	<a href="#">Hot Potatoes</a> – Chemistry examples	Words, symbols and pictures	Many questions included as an interactive learning game. May need further adaptations.
	<a href="#">Life is Loopy</a> – Acid loop	Words, symbols and pictures	A question and answer quiz game activity.
Simple Chemical Reactions	<a href="#">Hot Potatoes</a> – Chemistry examples	Words, symbols and pictures	Many questions included as an interactive learning game. May need further adaptations.
	<a href="#">Life is Loopy</a> – Changes (Chemistry) Loop	Words, symbols and pictures	A question and answer quiz game activity.
Particle model of solids, liquids and gases	<a href="#">Hot Potatoes</a> – Chemistry examples	Words, symbols and pictures	Many questions with illustrations included as an interactive learning game. May need further adaptations.
	<a href="#">Supportive Worksheets</a> – States of Matter	Focus Activities	A question and answer quiz game activity.
	<a href="#">Flashcards software</a> – Solids, liquids and gases	Words, symbols and pictures	Interactive resource that flashes up keywords and students decide if the object is a solid, liquid or gas. Flashcards software could be used in other learning games.
	<a href="#">Odd One Out</a> – Solids, liquids and gases	Words, symbols and pictures	Interactive resource where students decide on the odd one out – if you do not have a digital projector then the questions could be printed off. Adaptable.
Solutions	<a href="#">Hot Potatoes</a> – Chemistry examples	Words, symbols and pictures	Many questions included as an interactive learning game. May need further adaptations.
Electrical circuits	<a href="#">Modelling electricity</a>	Focus Activities	Ideas on modelling electricity with your students.
Forces and their effect	<a href="#">Concept Cartoons</a> – bungee jumper	Focus Activities	Interactive scene setting, encouraging students to question in science. Can lead into an investigation.
	<a href="#">Mr Zippy's Trainers</a>	Focus Activities	Recaps forces, friction and materials from KS 2 in a clearly presented activity.
Respiration	<a href="#">Supportive Worksheets</a> – Heart	Focus Activities	Page 11 from the pdf file.
Ecological relationships	<a href="#">Hot Potatoes</a> – Environment example	Words, symbols and pictures	Many questions included as an interactive learning game. May need further adaptations.
Atoms and elements	<a href="#">Hot Potatoes</a> – Chemistry examples	Words, symbols and pictures	Many questions included as an interactive learning game. The elements quiz has some great pictures illustrating the uses of the elements.

	<a href="#">Bingo Games</a> – Chemical Symbols	Words, symbols and pictures	Students cross off the symbol as the element name is read out or written. Can be used in conjunction with the Flashcards software.
Compounds and mixtures	<a href="#">Flashcards software</a> – Elements, mixtures and compounds	Words, symbols and pictures	Interactive resource that flashes up keywords and students decide if the object is an element, mixture or compound. Flashcards software could be used in other learning games.
Rocks and weathering	<a href="#">Dinosaur Hunt</a> – Hunt section	Focus Activities	The pictures of rock formations (perhaps on a digital projector) could be used to recap the different types of rock formation and weathering ideas.
The rock cycle	<a href="#">Hot Potatoes</a> – Chemistry Examples	Words, symbols and pictures	Many questions included as an interactive learning game. May need further adaptations.
Heating and cooling	<a href="#">SEP Materials</a> – Thermocolour film	Focus Activities	A multisensory idea relating to Heat and Temperature.
Light	<a href="#">Torches and colour</a>	Focus Activities	Several interactive resources reinforcing the colour names, including colour addition and the action of filters.
	<a href="#">Hot Potatoes</a> – Light and colours multiple choice and colours of the spectrum	Words, symbols and pictures	Many questions included as an interactive learning game. May need further adaptations.
Sound and hearing	<a href="#">Speed pairs</a>	Words, symbols and pictures	This quiz includes materials on all topics from Sc4.
Fit and healthy	<a href="#">Muscles and Movements</a> – Interactive running person and bone labelling	Focus Activities	Interactive demos to stimulate discussion or reinforce ideas.
	<a href="#">Muscles and Movements</a> – making models for the different types of joint, examining bones	Focus Activities	A different approach to illustrating the different types of joint – reinforcing key ideas.
Plants and photosynthesis	<a href="#">Supportive Worksheets</a> – the structure of a plant(?)	Focus Activities	Page 6 in the pdf file.
	<a href="#">Fast Plants SAPS materials</a>	Investigations and Projects	Some of the worksheets could support starters/plenaries.
Plants for food	<a href="#">Supportive Worksheets</a> – the carbon cycle	Focus Activities	Page 12 in the pdf file.
	<a href="#">Fast Plants SAPS materials</a>	Investigations and Projects	Some of the worksheets could support starters/plenaries.
Environmental chemistry	<a href="#">Hot Potatoes</a> – Chemistry examples	Words, symbols and pictures	
Using chemistry	<a href="#">Hot Potatoes</a> – Chemistry examples	Words, symbols and pictures	Many questions included as an interactive learning game. May need further adaptations.
Energy and electricity	<a href="#">Speed pairs</a>	Words, symbols and pictures	
Gravity and space	<a href="#">Concept cartoons</a> – Bungee jumper	Focus Activities	Interactive scene setting, encouraging students to question in science. Could be printed off, used with a digital projector or with groups around a computer. Can lead into an investigation.
Speeding up	<a href="#">Speed pairs</a>	Words, symbols and pictures	A question and answer matching exercise relating to SC4 topics.
Pressure and moments	<a href="#">Muscles and movements</a> – Making a model arm	Focus Activities	Demonstrates the action of the arm as a lever.
	<a href="#">Supportive Worksheets</a> – Under pressure	Focus Activities	Page 7 of the pdf file.
Investigating scientific questions	Poster available with the CD-ROM includes Scientific Enquiry Keywords and Phrases		