

## Discovering Science: Medicinal Chemistry

## Lesson plan

Starter activity	Learning objectives
As a class, watch the video in Step 2.3 (Imaging	To explain different imaging
techniques). Explain that the class will be	techniques, the chemicals used in them
researching imaging techniques, so students	and now they work.
should take detailed notes.	• I o define the chelate effect.
	I o convey and present complex
	information on medicinal chemistry in a
	simple way.
	Resources required
Split the class into four groups. Each group will	1. Devices for watching video and
research and produce an informative poster on	conducting research.
one of the following:	2. Creative materials for producing
	posters.
1. X-rays	3. Materials for individual reflections (if
2. Ultrasound	done in class).
3. MRI	
4. Radioisotope imaging	Assessment for Learning
	Group posters, individual reflections.
When conducting research and producing their	
posters, groups should consider the following:	Differentiation
	SEND: Videos have subtitles.
How does this imaging technique	Low ability: Peer-learning.
WORK?	Gifted and Talented: Peer-teaching.
Which chemical elements are	
involved in this process?	Plenary
<ul> <li>vvnat is the chelate effect and now</li> </ul>	After all four posters have been presented,
does it relate to this technique?	conduct a quick poll of the class, asking students
	which technique they would be most comfortable
Posters should be as simple and easy to	with, and why.
understand as possible. Information and links	
provided in Steps 2.3 and 2.4 will be useful.	As an additional task if time, or homework, ask
	students to write a brief individual reflection on the
Each group should then present their poster to	following:
the class.	Why do you think it is important for
	patients to understand how imaging
	techniques work?