

# Bringing Science To Life: Integrating ICT Into Stages 4-5 Science

Teacher Professional Learning Course (10 non-registered hours)

The new NSW K-10 Science and Technology Syllabus mandates the integration of ICT to support a range of teaching, learning and assessment approaches. This provides great scope for the integration of new and emerging technologies in the design of immersive, authentic learning. Portable information gathering and processing opportunities, massive online databases and learning experiences based on individual strengths, all lend themselves to quality science teaching and enhanced learning opportunities for students.

Students come to secondary science classes with a range of experiences and high expectations about practical laboratory experiences. They often bring their own devices but have not yet experienced the range of possibilities available to them to foster their scientific curiosity.

**The course will consist of a one-day workshop (5.5hrs) and a follow-on component (4.5hrs).**

Workshop - teachers will participate in hands-on activities to:

- » gain confidence with and the ability to integrate ICT meaningfully into learning and teaching to support the aims and objectives of the new Stages 4-5 Science syllabus
- » use a variety of apps and software to engage students, explore science concepts and create products that demonstrate evidence of learning (some examples include use of QR codes; production of memes; using puzzling simulations of Rube Goldberg machines; tracking celestial objects; using augmented reality to investigate space probes; reporting using interactive infographics, comic strips and digital interactive books)
- » engage with 'real science' (such as investigating weather, seismology, cosmology and rocketry) and confidently work with a range of information and communications technologies.

Follow-on component - participants will:

- » design and deliver a lesson sequence demonstrating the integration of ICT
- » prepare and implement an assessment task based on the lessons
- » reflect, evaluate and report on these lessons
- » share the report with other participants through an online forum.

**"Tell me and I forget. Teach me and I remember. Involve me and I learn."** - Benjamin Franklin

**"Learn from yesterday, live for today, hope for tomorrow. The important thing is not to stop questioning."** - Albert Einstein

## Course Developer & Facilitator

Wayne Chaffey

A science educator for almost four decades, Wayne commenced teaching at James Ruse Agricultural High and retired from Moree Secondary College. He has taught Science in a range of schools and provided professional learning for teachers from K-12, mostly in regional NSW. He recognises the importance of ICT in effectively engaging today's students and providing them with essential 21st Century skills.



## REGISTER NOW!

Register online through MyPL@EDU  
<https://www.det.nsw.edu.au/docprs/welcome.do>  
**MyPL Course Code: NR08355**

**NSW DoE teachers:** Log into MyPL@Edu with your DoE credentials & search for the course using the above code or course title. Government schools will be charged internally by the NSW Department of Education. This will be reflected on your sundry tax invoice statement.

**Non-DoE teachers:** You will need to sign up for a username and password to access MyPL. Just click "Don't have a username" on the MyPL website and follow the instructions. Private schools and other institutions will be invoiced by the NSW Department of Education.

*Please note: Any cancellations made within 5 days of the course, or no-shows, will be charged to your school.*

**WHO** Teacher of 7-10 Science

**WHEN** Please see website for dates  
**www.macict.edu.au**

**TIME** 9am-3:30pm

**LOCATION** North Ryde, NSW

**COST** \$285 (incl GST)

**CONTACT** [macictsupport@det.nsw.edu.au](mailto:macictsupport@det.nsw.edu.au)  
Phone: 02 9850 4310

