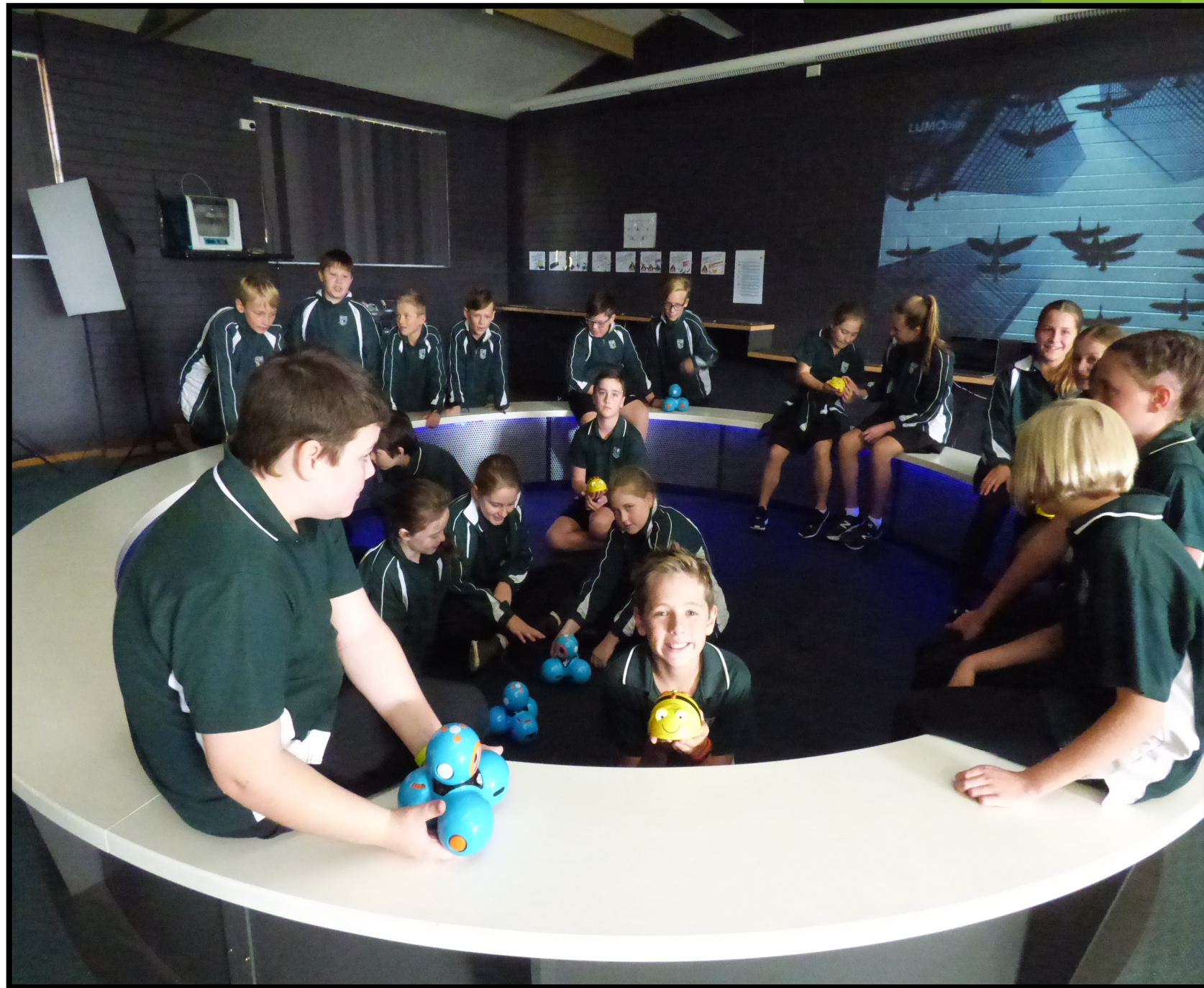


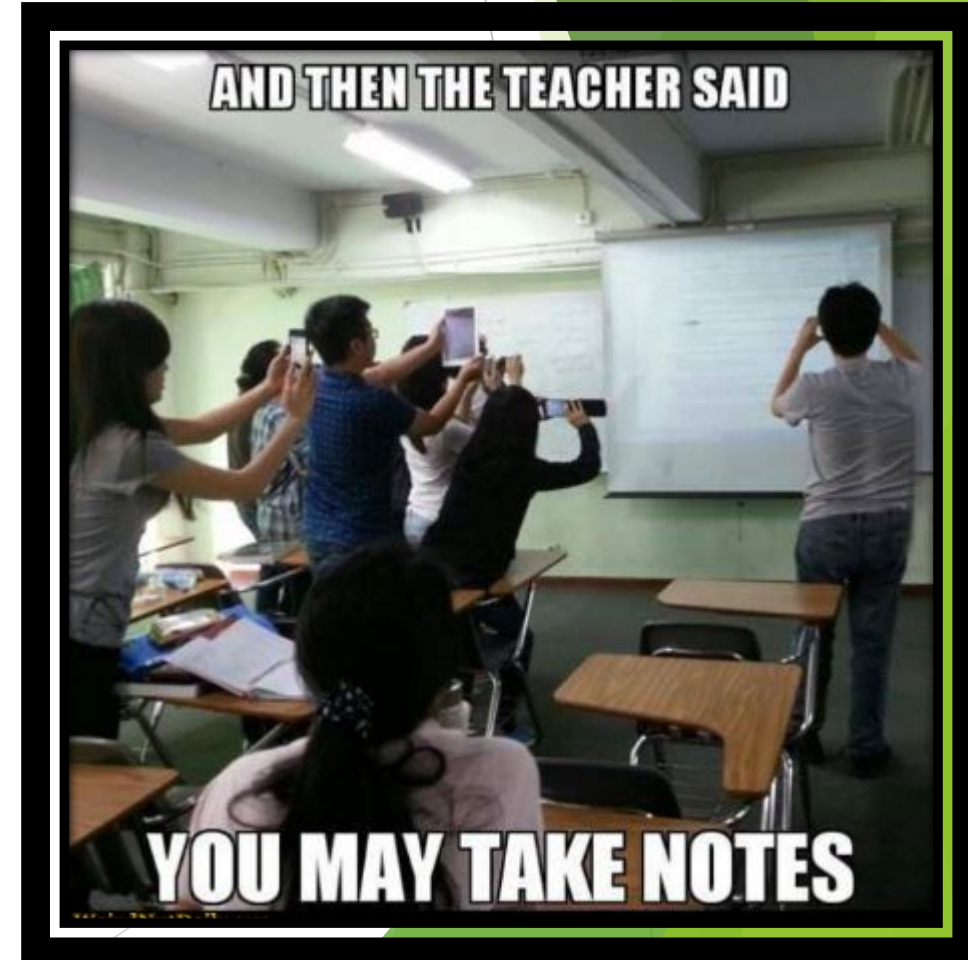
Enriching
learning
through digital
technologies
and Maker
spaces.



Valentine Public School - Leader in Digital/ Makerspace Technologies

- ▶ At Valentine Public School, we foster critical, creative and computational thinking within our Futures Focused Makerspace. Through design processes, embedded STEAM and ICT within classroom content learning, we inspire our students to be creators and architects of technology. Learning within our Makerspace uses student's curiosity and imagination as a springboard for authentic Futures Focused education that explicitly supports learning within the general capabilities, cross-curricular priorities and supports class-programming goals. The centrepieces of our Makerspace are our amazing Robot Arena, Green Screen, Virtual Reality Room, 3D printer, Interactive Walls, Coding Consults and Stand-up Laptop Bench. Within our Makerspace students, engage with Game Design and creation, Filming and Multi-modal Literacies, Engineering and Design processes, Coding and Computation thinking tasks, Animation, Robotics learning and more!

The technological landscape in which students learn is rapidly changing.



YOU MAY TAKE NOTES

Valentine Public Schools Makerspace

- ▶ Achieving the goals of the Melbourne Declaration on Educational Goals of Young Australians to produce active and informed citizens who are creative and critical thinkers.
- ▶ An emphasis and commitment to engaging students as creators, not consumers, of and with technology.
- ▶ All learning enriches class content learning whilst engaging with constructivist pedagogy that requires students to construct learning and knowledge using their own worldviews and personal schemes as a base.
- ▶ Engaging with the NSW draft paper Education: Future Frontiers, we designed and created a state-of-the-art Makerspace that reflects the needs of the future focused learner.
- ▶ High levels of student engagement in a culture of high expectations and social support.
- ▶ Changing the role of the teacher librarian to that of 'Media Specialist' with a focus on the achievement of the general capabilities and cross curricular priorities to support programming goals.
- ▶ Cross curricular content learning. Empowering students to authentically link learning across all Key Learning Areas
- ▶ Quality Teaching Model; Intellectual quality, quality learning environment and significance.
- ▶ Team teaching to enrich student learning and support pedagogical ICT professional development.



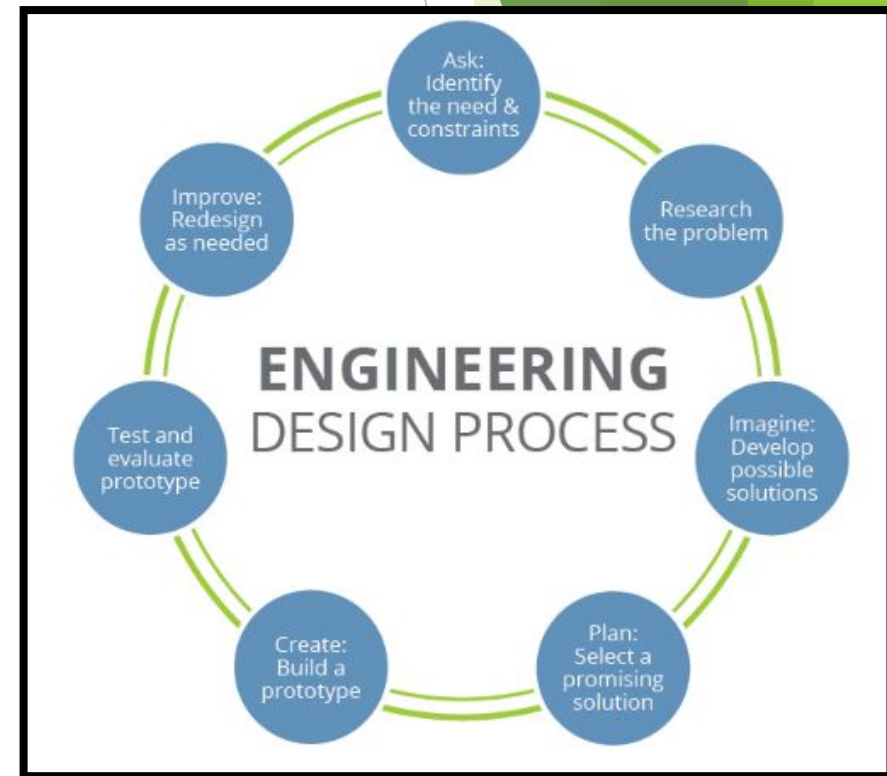
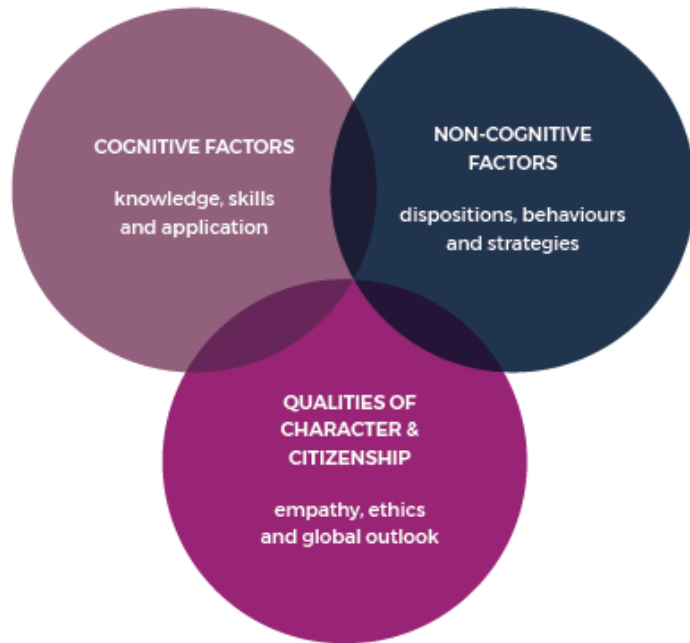


The Arena

- ▶ Quality learning environment with high levels of student engagement.
- ▶ Dedicated space for robotic and learning.
- ▶ Interactive, creative and flexible future focused learning.



Supporting mathematical content learning; 3D design and printing.

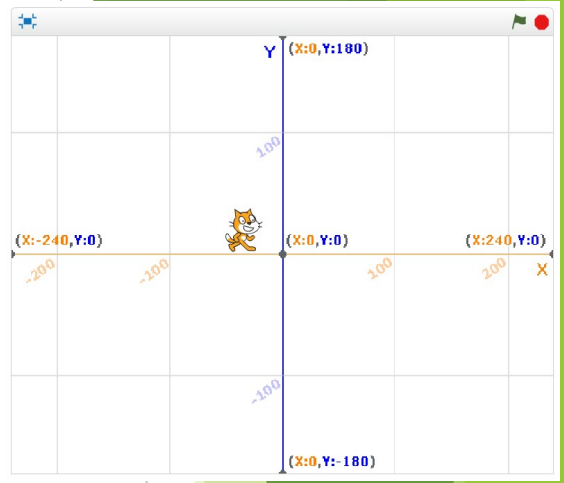
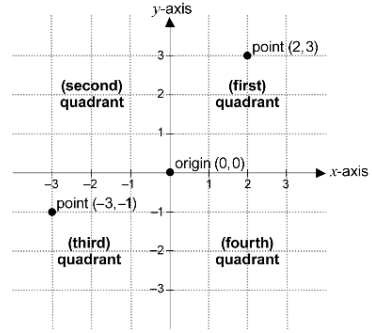


Critical, Creative and Computational thinking

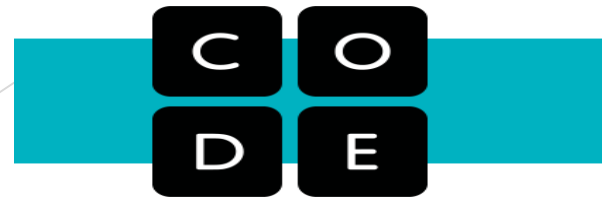


Introduce the Cartesian coordinate system using all four quadrants (ACMMG143)

- recognise that the number plane (Cartesian plane) is a visual way of describing location on a grid
- recognise that the number plane consists of a horizontal axis (x-axis) and a vertical axis (y-axis), creating four quadrants



- recognise that the horizontal axis and the vertical axis meet at right angles (Reasoning)
- identify the point of intersection of the two axes as the origin, having coordinates (0, 0)

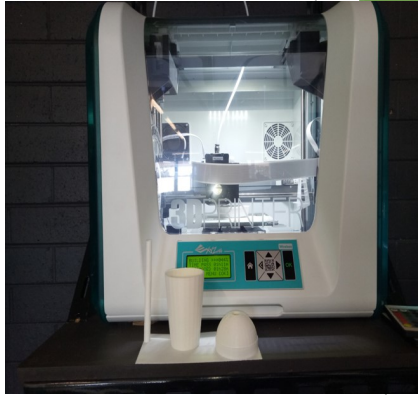


Critical, Creative and Computational thinking



WE BROKE OUT!

Breakout EDU #BREAKOUTEDU



Virtual Reality



Leading Future Focused Learning

- ▶ Working with pre-service Primary, Secondary and Masters students from the University of Newcastle. The aim of this partnership is to support student teachers within the area of future focused learning and relevant information communication technologies as best practice pedagogy.
- ▶ As part of a research project we mentored a local High School in the utilisation of iMovie to support student understanding and knowledge construction within their History learning.
- ▶ Running Future Focused Gifted and Talented workshops for students across the Tamworth region.
- ▶ Presenting teacher professional learning in future focused learning and computational thinking at both Mathematics and Teacher Librarian Network meetings.
- ▶ Mentoring and training educators from other schools. We open our library / Makerspace to schools requesting support or guidance with integrating of future focused teaching and learning.
- ▶ Ongoing dialogue with our local High School around future focused skills to support student transition into stage four and beyond.

