

Alignment of Makerspaces with the Professional Standards for Teachers

Standard	Graduate Teacher	Proficient Teacher
<p><b>2.6</b> Information and Communication Technology</p>	<p>Implement teaching strategies for using ICT to expand curriculum learning opportunities for students.</p> <p><i>By accessing and using ideas from the <a href="#">Maker Space</a> website Graduate teachers will be able to demonstrate knowledge of <a href="#">current ICT</a> trends of interest to 21<sup>st</sup> century learners and adapt these to teaching and learning opportunities</i></p>	<p>Use effective teaching strategies to integrate ICT into learning and teaching programs to make selected content relevant and meaningful.</p> <p><i>By incorporating <a href="#">Maker Spaces</a> into teaching and learning programs proficient teachers will be able to demonstrate the incorporation of <a href="#">innovative ICT</a> to make content more in tune with the experiences of 21<sup>st</sup> century learners.</i></p>
<p><b>3.1</b> Establish challenging learning goals</p>	<p>Set learning goals that provide achievable challenges for students of varying abilities and characteristics.</p> <p><i>By adapting the <a href="#">Maker Space</a> as an educational environment teachers will be able to set a range of goals for student in a stimulating environment</i></p>	<p>Set explicit, challenging and achievable learning goals for all students.</p> <p><i>The ability to be able to differentiate in the <a href="#">Maker Space</a> environment is in being able to provide a range of resources that students can use to achieve an end goal.</i></p>
<p><b>3.4</b> Select and use resources</p>	<p>Demonstrate knowledge of a range of resources, including ICT, that engage students in their learning.</p> <p><i>Maker Spaces are inviting and in providing ICT projects such as <a href="#">Arduino</a> and <a href="#">Raspberry Pi</a> students are invited to understand the programming behind technology.</i></p>	<p>Select and/or create and use a range of resources, including ICT, to engage students in their learning.</p> <p><i>Maker Space projects allow students to decide on the direction that the learning takes dependant on the skills students already hold. The programming available via <a href="#">Raspberry Pi</a> and <a href="#">Arduino</a> means students can create complex coding systems to achieve a number of end products.</i></p>

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<p><b>4.4</b> Maintain student safety</p>	<p>Describe strategies that support students' wellbeing and safety working within school and/or system, curriculum and legislative requirements.</p> <p><i>Due to the practical nature of Maker Space activities it is necessary to make sure that a <a href="#">risk assessment</a> (QLD example: please check your state/territory regulations) of the activity is undertaken.</i></p>	<p>Ensure students' wellbeing and safety within school by implementing school and/or system, curriculum and legislative requirements.</p> <p><i>Due to the practical nature of Maker Space activities it is necessary to make sure that a <a href="#">risk assessment</a> (QLD example: Please check your state/territory regulations) of the activity is undertaken.</i></p>
<p><b>4.5</b> Use ICT safely, responsibly and ethically.</p>	<p>Demonstrate an understanding of the relevant issues and the strategies available to support the safe, responsible and ethical use of ICT in learning and teaching.</p> <p><i>Teachers need to understand the role of <a href="#">digital citizenship</a> in any activity involving ICT.</i></p>	<p>Incorporate strategies to promote the safe, responsible and ethical use of ICT in learning and teaching.</p> <p><i>Teachers will be able to embed <a href="#">digital citizenship</a> awareness within the activities for the Maker Space that involve ICT.</i></p>
<p><b>7.4</b> Engage with professional teaching networks and broader communities</p>	<p>Understand the role of external professionals and community representatives in broadening teachers' professional knowledge and practice.</p> <p><i>Be a member of Maker Space <a href="#">networks/communities</a> that teachers can access for advice and information including innovative ways to use Maker Spaces.</i></p>	<p>Participate in professional and community networks and forums to broaden knowledge and improve practice.</p> <p><i>Be an active contributor to Maker Space <a href="#">networks/communities</a> and sharing knowledge gained through these networks/communities to improve the Maker Space experience for students.</i></p>