

The impact of Science Literacy delivery methods - what works?

Summarised Strengths and Weakness

GROUP 4. Activities and services

V 1.0 | 9 May 2019

NOTES

n.d. = no data provided

GROUP 4. Activities and services

Mechanism	Content of use	Strengths	Weaknesses	Reference
30. Competitions				NO REVIEWS
31. Experiments				n.d.
32. Makerspaces		<ul style="list-style-type: none"> - can increase engagement with STEM knowledge and potential in advancing interest in STEM careers, in particular for underrepresented populations - can foster the development and demonstration of 21st-century skills (e.g. problem-solving, critical and creative thinking, collaboration, communication) - can help cultivating creativity and innovation in universities and recasting the role of libraries and the impact they can have on local communities - can provide an opportunity for meaningful community engagement: acting as social spaces; supporting wellbeing; serving the needs of the communities and providing outreach centers for excluded groups 	<ul style="list-style-type: none"> - lack of teacher preparation, skill sets, expertise regarding how to use technology, pedagogical knowledge and limited access to technology and resources - student anxiety - most early adopters of makerspaces were affluent males - benefits available through makerspaces might not be evenly available - resource constraints can be challenging for makerspaces both in developed and developing countries 	http://www.nida-net.org/en-gb/activities/connectwithscience/research/reports-and-bibliographies/makerspaces/
33. Mobile classrooms				NO REVIEWS
34. Mobile Laboratories				NO REVIEWS