



Network for Information and Digital Access

The impact of Science Literacy delivery methods - what works?

Bibliography

Posters | Group 3. Traditional publishing and journalism
- print and broadcast

Ver. 2.00

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Introduction

This thematic bibliography is the result of research to survey existing literature available on Science Literacy delivery methods.

The search was carried out by retrieving documents and articles from a wide range of sources, including research databases, Google Scholar, ResearchGate, subject databases, open access repositories etc. using keyword combinations.

The results of the resource discovery are divided into two groups: one containing impact assessments using qualitative, quantitative or mixed method (both qualitative and quantitative) approaches to data collection and a second including descriptive resources, which encompass, for example, reviews, guides, handbooks, reports and project reports.

This bibliography is work in progress and is not designed to be fully exhaustive or complete. We will be pleased to receive suggestions and recommendations for additions that can contribute to the understanding of science, its applications and, to the promotion of science literacy.

Groups and methods list

During the first part of the Desk Research phase of this project (i.e. Task 1), the team identified 42 single-mechanism approaches, 2 composite approaches and 1 related approach that were relevant to the delivery and dissemination of scientific information. The list of single mechanisms was further organised into 7 thematic groups, as presented in the following Table.

Single mechanism approach	Group
Exhibitions, Expo, Festivals, Movies, Picnics, Science fairs, Seminars, Talks, TED Talks, Theatre, Workshops	1. Events, meetings, performances
Colloquia, Courses, Curricula, E-learning, Webinars	2. Education and training – including online
Animations, Books, Brochures, Cartoons, Comics, Games, Graphics, Posters, Publications, Radio, Reports, TV, Videos	3. Traditional publishing and journalism – print and broadcast
Competitions, Experiments, Makerspaces, Mobile classrooms, Mobile laboratories	4. Activities and services
Blogs, E-books, E-zines, Mobile Apps, Podcasts, Social media, Websites, Wikis	5. Online interactions
Composite approaches	
Multiliteracies	
Multimodalities	
Related approach	
Citizen Science	

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Impact Assessment

- Abdelmassih, Kelly N., Susan W. Arendt, Catherine H. Strohbehn, Lakshman Rajagopal, Kevin Sauer, and Angela M. Shaw. 2016. "Evaluating the Impact of Food Safety Messaging Posters on Observed Employee Food Safety Behavior: A Mixed Methods Approach." *Journal of Foodservice Management & Education* 10 (2): 19. https://lib.dr.iastate.edu/fshn_ag_pubs/183/.
- Berry, John, and Ken Houston. 1995. "Students Using Posters as a Means of Communication and Assessment." *Educational Studies in Mathematics* 29 (1): 21–27. <https://doi.org/10.1007/BF01273898>.
- Bracher, Lee, Jane Cantrell, and Kay Wilkie. 1998. "The Process of Poster Presentation: A Valuable Learning Experience." *Medical Teacher* 20 (6): 552–55. <https://eric.ed.gov/?id=EJ582559>.
- Cook, Roger, and Paul Feen. 2013. "Dynamic Digital Posters: Making the Most of Collaborative Learning Spaces." In . Australasian Society for Computers in Learning in Tertiary Education. <https://www.learntechlib.org/p/171127/>.
- Logan, Jennifer L., Rosalynn Quiñones, and Deborah P. Sunderland. 2015. "Poster Presentations: Turning a Lab of the Week into a Culminating Experience." *Journal of Chemical Education* 92 (1): 96–101. <https://doi.org/10.1021/ed400695x>.
- Moerenhout, Tania, Dirk Devroey, Borgermans, Schol, Johan Vansintejan, and Van De Vijver. 2013. "Patient Health Information Materials in Waiting Rooms of Family Physicians: Do Patients Care?" *Patient Preference and Adherence* 7 (June): 489. <https://doi.org/10.2147/PPA.S45777>.
- Waters, Natalie. 2015. "A Poster Assignment Connects Information Literacy and Writing Skills." *Issues in Science and Technology Librarianship*. <https://eric.ed.gov/?id=EJ1069542>.
- Zevenbergen, Robyn. 1999. "Student Constructed Posters: A Tool for Learning and Assessment in Preservice Mathematics Education." *Mathematics Teacher Education and Development* 1: 72–83. <https://eric.ed.gov/?id=EJ605644>.

Descriptive Resources

- Allan, Cameron, Janis Bailey, and Leigh Pointon. 2008. "Students' Approaches to Poster Making." *Employment Relations Record* 8 (2): 15. <http://search.informit.com.au/documentSummary;dn=835347088004992;res=IELBUS>.
- Billington, Dr H. L. 1997. "Poster presentations and peer assessment: novel forms of evaluation and assessment." *Journal of Biological Education* 31 (3): 218–20. <https://doi.org/10.1080/00219266.1997.9655566>.
- Briggs, David J. 2009. "A Practical Guide to Designing a Poster for Presentation." *Nursing Standard* 23 (34): 35–39. <https://doi.org/10.7748/ns2009.04.23.34.35.c6954>.
- D'Angelo, L. 2012. "From Posters to E-Posters: The Evolution of a Genre." *Language Studies Working Papers*, 4: 46–54. https://www.reading.ac.uk/web/files/english-language-and-literature/elal_LSWP_Vol_4_DAngelo1.pdf.
- Editor, SpotOn. 2013. "Social Media for Science Outreach – A Case Study: Better Posters." Science. SpotOn: Science Policy, Outreach and Tools Online. April 25, 2013. <http://www.nature.com/spoton/2013/04/social-media-for-science-outreach-a-case-study-better-posters/>.
- Erren, Thomas C., and Philip E. Bourne. 2007. "Ten Simple Rules for a Good Poster Presentation." *PLoS Computational Biology* 3 (5): e102. <https://doi.org/10.1371/journal.pcbi.0030102>.

- Fisher, Paul. 2016. "Creating Science Posters." Blog. *Science Communication* (blog). November 13, 2016. <https://medium.com/science-communication/creating-posters-615ded23da55>.
- Hess, George R., Kathryn W. Tosney, and Leon H. Liegel. 2009. "Creating Effective Poster Presentations: AMEE Guide No. 40." *Medical Teacher* 31 (4): 319–21. <https://doi.org/10.1080/01421590902825131>.
- Hubenthal, Michael, Thomas O'Brien, and John Taber. 2011. "Posters That Foster Cognition in the Classroom: Multimedia Theory Applied to Educational Posters." *Educational Media International* 48 (3): 193–207. <https://doi.org/10.1080/09523987.2011.607322>.
- Huntley-Moore, Sylvia. 2005. "All for One and One for All or Every Student for Themselves? Using Group Posters in the Assessment of the Sociology of Health and Illness." [https://www.researchgate.net/publication/240610251 All for One and One for All or Every Student for Themselves Using Group Posters in the Assessment of the Sociology of Health and Illness](https://www.researchgate.net/publication/240610251_All_for_One_and_One_for_All_or_Every_Student_for_Themselves_Using_Group_Posters_in_the_Assessment_of_the_Sociology_of_Health_and_Illness).
- Ilic, Dragan, and Nicholas Rowe. 2013. "What Is the Evidence That Poster Presentations Are Effective in Promoting Knowledge Transfer? A State of the Art Review." *Health Information & Libraries Journal* 30 (1): 4–12. <https://doi.org/10.1111/hir.12015>.
- "Implementing Posters in the Classroom | Center for Teaching and Learning." 2017. Yale Center for Teaching and Learning. 2017. <https://ctl.yale.edu/ImplementingPosters>.
- Karatsolis, Andreas. 2012. "Assessing Visual Literacy: The Case of Poster Presentations." In *2012 IEEE International Professional Communication Conference*, 1–7. Orlando, FL, USA: IEEE. <https://doi.org/10.1109/IPCC.2012.6408627>.
- MacFeely, Steve, Pedro Campos, and Reija Helenius. 2017. "Key Success Factors for Statistical Literacy Poster Competitions." *Statistics Education Research Journal* 16 (1): 202–16. [https://iase-web.org/documents/SERJ/SERJ16\(1\)_MacFeely.pdf](https://iase-web.org/documents/SERJ/SERJ16(1)_MacFeely.pdf).
- Masood, Mona, and Zakiah Zain. 2011. "Appreciating, Interpreting and Understanding Posters via Levels of Visual Literacy." *World Academy of Science, Engineering and Technology* 59: 1799–1803. <https://www.waset.org/publications/11927>.
- Menke, Jessica L. 2014. "Implementation of Online Poster Sessions in Online and Face-to-Face Classrooms as a Unique Assessment Tool." *Journal of Chemical Education* 91 (3): 414–16. <https://doi.org/10.1021/ed400665n>.
- Miller, Jane E. 2007. "Preparing and Presenting Effective Research Posters." *Health Services Research* 42 (1p1): 311–28. <https://doi.org/10.1111/j.1475-6773.2006.00588.x>.
- O'Neill, G., and D. Jennings. 2012. "The Use of Posters for Assessment: A Guide for Staff." University College Dublin. <http://www.ucd.ie/teaching/t4media/UCDTLA0039.pdf>.
- Seery, Michael. 2014. "Student Posters on Chemistry Topics | Ideas | Education in Chemistry." Education in Chemistry. March 3, 2014. <https://eic.rsc.org/ideas/student-posters-on-chemistry-topics/2010091.article>.
- Summers, Kathryn. 2005. "Student Assessment Using Poster Presentations: Kathryn Summers Considers the Pros and Cons of Using Poster Presentations as Part of the Assessment Strategy for Pre-Registration Child Branch Students." *Paediatric Nursing* 17 (8): 24–26. <https://doi.org/10.7748/paed.17.8.24.s22>.
- Tvarůžka, Václav. 2016. "Technology Education and Presentation of Knowledge Using Educational Posters within the EU Project Conception." *Edukacja – Technika – Informatyka* 17 (3): 71–75. <https://doi.org/10.15584/eti.2016.3.10>.

- University of Liverpool. 2012. "Making an Impact with Your Poster." University of Liverpool.
<https://www.liverpool.ac.uk/media/livacuk/computingservices/printing/making-an-impact-with-your-poster.pdf>.
- University of Southampton. n.d. "How to Make a Scientific Poster | Inspire Medicine - Southampton | University of Southampton." University of Southampton - How to Series. Accessed August 14, 2018.
<https://www.southampton.ac.uk/sias/resources/howtoseries/howtoprepareposter.page>.
- Walker, Steven. 2005. "Poster Poster on the Wall: Whose Is the Fairest Assessment of All?" *Journal of Family Therapy* 27 (3): 285–88. <https://doi.org/10.1111/j.1467-6427.2005.00319.x>.