



# Links Document Related to Science Cluster Day

## 2021

### **Scientific Habit of Mind**

Name	Description	Website Addresses and QR codes
Junior Cycle for Teachers Science CPD Resources 2021	Junior Cycle for Teachers (JCT) is a dedicated continuing professional development (CPD) support service of the Department of Education and Skills. The Science team aim to support teachers in their implementation of the new Framework for Junior Cycle (2015) and in their enactment of the Science Specification. All the resources mentioned during the day are hosted on this page.	https://www.jct.ie/scien ce/cpd_workshop_202 0_2021
Science Specification	Curriculum Specification for Junior Cycle Science.	https://www.curriculum online.ie/Junior- cycle/Junior-Cycle- Subjects/Science/
Google site for Science Cluster 2021	Google site used to host all the documents and resources used on the cluster day 2021	https://sites.google.co m/jctonline.ie/jc- science-team-cluster- day/home?authuser=0



An tSraith Shóisearach do Mhúinteoirí



University of Berkeley – Understanding Science resource	The University of Berkeley 'Understanding Science' website is a fun, accessible, and free resource that accurately communicates what science is and how it really works, developed to support our understanding of the processes of science.	https://undsci.berkeley. edu/tour.php
Best Evidence Science Teaching (BEST)	BEST has a collection of free research evidence- informed resources for the effective progression of some key concepts in science. This website is where the talking heads activity came from.	https://www.stem.org.u k/best-evidence- science-teaching
"thinglink multimedia platform	"thinkLink. is a multimedia platform that was used to build the self-directed learning module. It allows users to create unique experiences with interactive images, videos & 360° media.	https://www.thinglink.c om/en-us/
Ethics vs. Morals video	Short clip of Michael J. Reiss, bioethicist describing the difference in morals and ethics.	

www.jct.ie





Article on Frameworks for ethical analysis	This article 'Frameworks for ethical analysis' by Science Learning Hub provides a range of resources to support learning approaches to ethical issues and discussions.	https://www.sciencelea rn.org.nz/resources/21 46-frameworks-for- ethical-analysis
Video 1 for supporting discussions in a science classroom	The video 'Small families, small planet' by Population Matters, explores population growth through exploration of data. Discusses fertility levels.	https://www.youtube.c om/watch?v=OoqDiwv zcHE
Video 2 for supporting discussions in a science classroom	The video 'Could We Control Human OVER Population?' by BBC Earth Lab, explores population growth through a narrated story with some tongue in cheek humour.	
Level 2 Learning Programmes	Access the Level 2 Learning Programmes planning resources.	





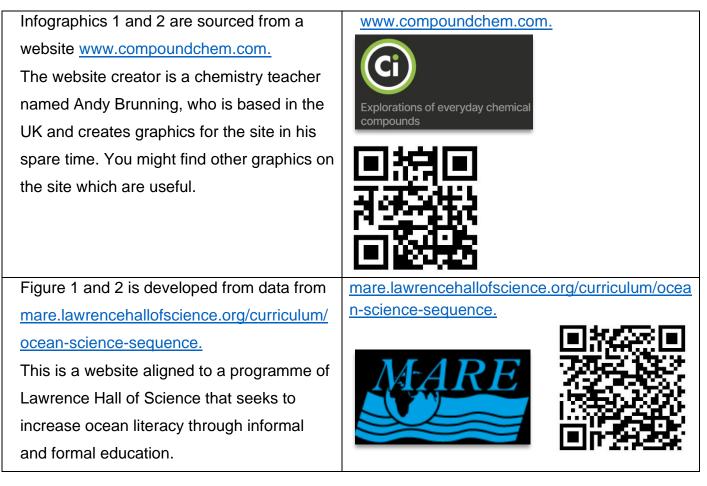
Draft guidelines for supporting exceptionally able students.	The guidelines are a result of collaboration between the National Council for Curriculum and Assessment (NCCA), Republic of Ireland and the Council for Curriculum, Examination and Assessment (CCEA), Northern Ireland and as such, they aim to support the teaching and learning of students who are exceptionally able in both jurisdictions.	https://ncca.ie/media/1 974/exceptionally_able students_draft_quidel ines_for_teachers.pdf
EcoEye Episode: 'Is it too late to save Ireland's precious Peatlands?'	Episode from EcoEye where the clip of the students were interviewed about their BT-Young Scientist project about conserving a local bog. (Clip 18:00 – 24:55 min). Subscribe to the EcoEye channel on Youtube to get all episodes.	https://www.youtube.c om/watch?v=AfBRx9D 87Js
Department Planning Padlet	This is a Padlet of resources to support science department discussions on planning and assessing understanding	https://padlet.com/jct2/ ScienceClusterDepart ment
Padlet	Padlet is an online platform that acts like a noticeboard. It allows you to hang resources in different ways so as your users can access them easily.	https://padlet.com/

www.jct.ie



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#### Sources of Data used for the Ocean Activities.



#### Sources of Data used for the Bog Activities.

Infographic 1 is sourced from a paper by Klaus Glenk & Julia Martin-Ortega (2018) entitled, 'The economics of peatland restoration', published in the Journal of Environmental Economics and Policy.



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Infographic 2 is sourced from the Food and Agriculture Organisation of the United Nations (FAO) website. The FAO have a range of resources on their website containing graphics, statistics, interactive stories and publications.

Figure 1 is sourced from the International Union for the Conservation of Nature (IUCN) website. It has a range of resources on its website containing some videos, virtual reality simulations and images.

Figure 2 is developed from data from a report entitled, 'Network Monitoring Rewetted and Restored Peatlands/Organic Soils for Climate and Biodiversity Benefits (NEROS)'.





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### Sources of Data used for the Physical World 8 'Talking Head' Activities.







### Sources of Data used for the Biological World 9, 'Talking Head' Activities.

Article 1, 'Can 10 billion people live and eat	www.brookings.edu/blog/future-
well on the planet? Yes.' is adapted from an	development/2015/04/28/can-10-billion-people-
article from the website Brooking.edu written	live-and-eat-well-on-
by Heinz-Wilhelm Strubenhoff. (28th April	the-planet-yes
2015.)	
	BROOKINGS
Arcticle 2, 'A demographic projection of the	www.rbmojournal.com/article/S1472-
contribution of assisted reproductive	www.rbmojournal.com/article/S1472- 6483(18)30039-7/fulltext
contribution of assisted reproductive	
contribution of assisted reproductive technologies to world population growth', is	
contribution of assisted reproductive technologies to world population growth', is adapted from an article written by M.J. Faddy,	
contribution of assisted reproductive technologies to world population growth', is adapted from an article written by M.J. Faddy, M.D. Gosden & R.G. Gosden (1st February	

