



# LESSON PLAN

All lesson resources can be found at: [encounteredu.com/teachers/lessons/frozen-oceans-science-14-16-lesson-5](https://encounteredu.com/teachers/lessons/frozen-oceans-science-14-16-lesson-5)

Aims / Objectives	Activities	Resources	Outcomes
<p>STARTER:</p> <p>SHARING THE SCIENCE</p>	<p>Use the Slideshow 'Sharing research' to introduce students to the different methods that scientists use to disseminate their findings and about the peer review process.</p>	<p>Slideshow - Sharing research</p>	<p>Know about the peer review process</p> <p>Know about how scientists share their findings</p>
<p>WHAT DOES A SCIENCE PAPER LOOK LIKE?</p>	<p>Use the slideshow and the Student Sheet 5a to explain the science paper to your class.</p> <p>Use the following questions to guide a class discussion or for students to answer in their books:</p> <p>What do you think about the language used in the science paper?</p> <p>Why do you think that scientists use this kind of language? (Hint: there is a strict word limit for papers)</p> <p>Do you think that science publishers and scientists should aim to write in a way that is more understandable for a wider audience?</p>	<p>Slideshow - Sharing research</p> <p>Student Sheet 5a - Science paper summary</p> <p>The full published paper can be downloaded from: <a href="https://www.pnas.org/content/110/51/E4960">www.pnas.org/content/110/51/E4960</a></p>	<p>Know what a science paper looks like</p> <p>Debate the nature of science publishing</p>
<p>HOW CAN SCIENCE BE COMMUNICATED IN THE PRESS?</p>	<p>A copy of the University of Exeter press release for the science is included on Student Sheet 5b.</p> <p>Read through the Press Release as a class. Does it make the science easier to understand?</p> <p>Use the slideshow to explore how else the university could have communicated the science.</p>	<p>Slideshow - Sharing research</p> <p>Student Sheet 5b - Press release</p>	<p>Debate how academic institutions communicate science to a wider audience</p>
<p>HOW CAN SCIENCE BE USEFUL TO SOCIETY?</p>	<p>Use the slideshow to identify the different pathways to impact used by scientists.</p> <p>Which of the pathways are important and why?</p>	<p>Slideshow - Sharing research</p>	<p>Explore and discuss the idea of pathways to impact</p>
<p>PLENARY:</p> <p>WHAT CHANGES COULD BE MADE TO THE WAY SCIENCE AIMS TO HAVE IMPACT?</p>	<p>As a plenary session use the slideshow to debate how public-funded science might be of more use to society.</p>	<p>Slideshow - Sharing research</p>	<p>Explore the connection between science and society</p>