Using infographics to revitalise a physiology communications skills assessment. **Derek Scott & Alison Jenkinson**

HAT HOLDS DNA STRANDS TOGETHER?

A strands are held together by hydrogen bonds between bases on adjacen

FROM DNA TO PROTEINS

ords', or codons, which code for different amino acids - the building blocks

cid), it does this by igiliting apart the two strands that form the double helis, the leading a strand and copying the sequence of nucleotides. The only difference etween the FINA and the original DAA is that in the place of thymine (T), anothe

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RNA PROTEI

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⊷(@)n=H-----N(@)

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Introduction

- Poster presentations to communicate knowledge are a commonly used undergraduate assessment tool.
- However, it is a challenge for students to deliver clear and detailed information whilst minimising volume of text on the poster.
- Infographics are progressively being used to demonstrate key scientific concepts in simple graphical form and developing students to effectively communicate with both a scientific audience and the general public is increasingly important within an academic curriculum (see Figure 1).
- To enhance communication skills and student engagement in this process we adapted an existing research project assessment and increased the emphasis on public communication skills with the use of

Feedback & Results

			Likert score descriptors	
Question	Mean Response	SEM	Score of 0	Score of 10
Importance of topic YOU chose?	8.65	0.19	Not at all	Very
Easy to find/choose topic?	6.63	0.30	Very hard	Very easy
Work on own or team?	2.46	0.38	On my own	Part of a team
How easy to develop infographic	4.30	0.29	Very easy	Very hard
How easy to access/gather scientific content?	4.50	0.34	Very easy	Very hard
How easy to simplify scientific material to fit?	5.17	0.32	Very easy	Very hard
How easy to format/look good?	4.72	0.35	Very easy	Very hard
Rate enjoyment	8.07	0.24	Not at all	Very much
Compare infographic with standard poster in terms of how it looks	8.83	0.21	Much worse	Much better
Compare infographic with poster in terms of scientific info/content	8.13	0.25	Much worse	Much better
Satisfaction with infographic	7.77	0.19	Not at all	Very satisfied
Enough time for project?	8.52	0.24	Not enough	More than enough
Online or printed?	3.13	0.36	Online	Printed

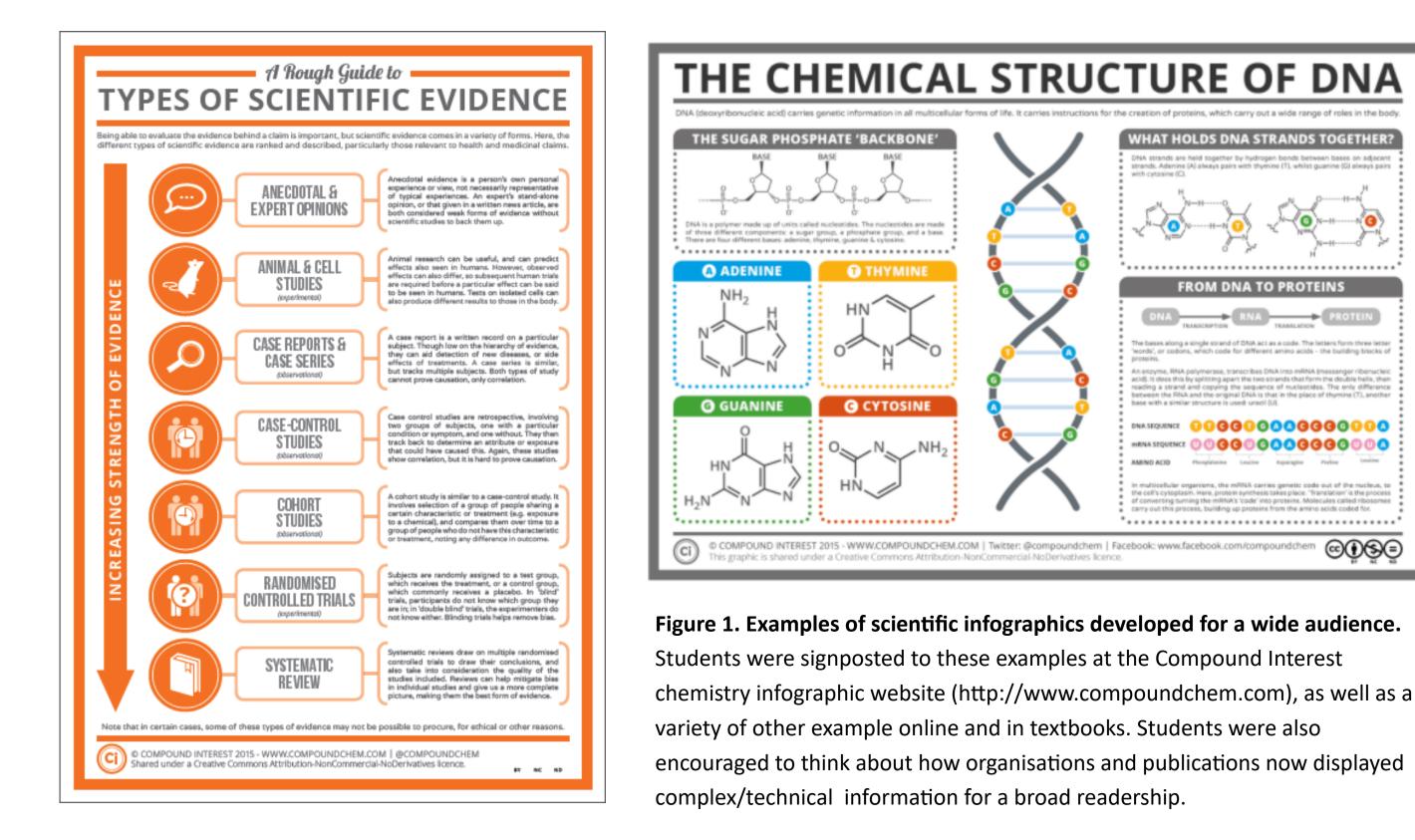
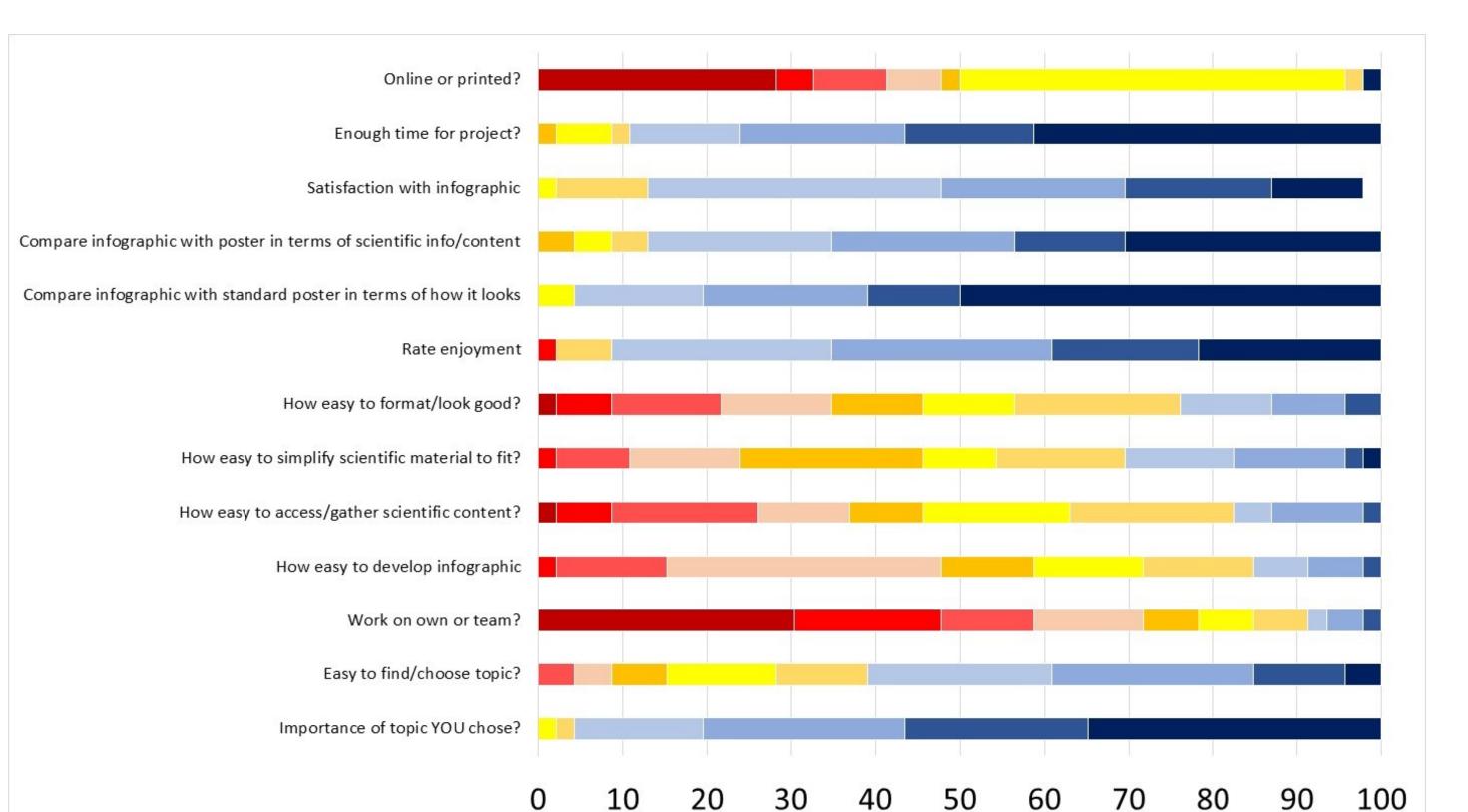
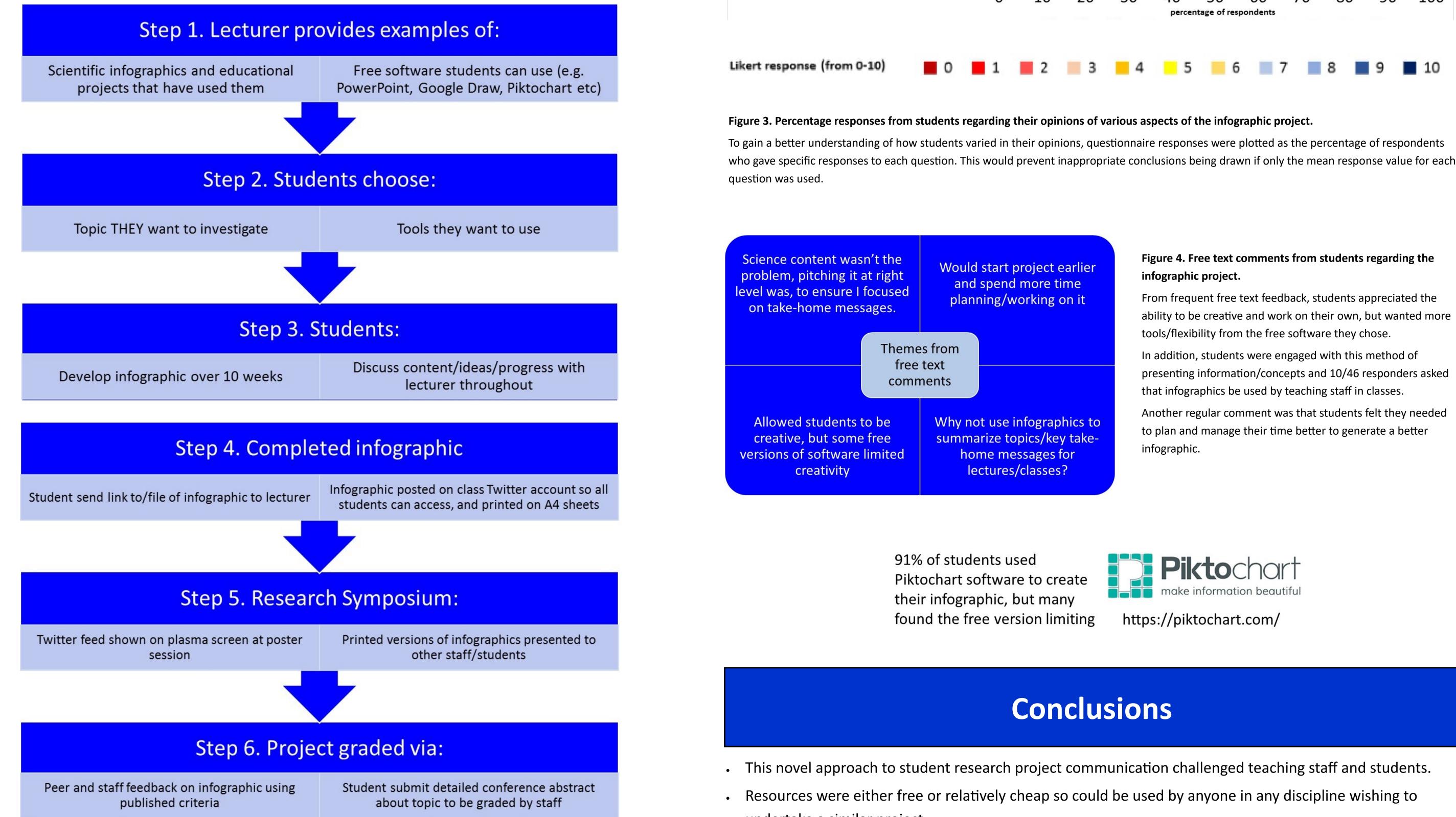


Figure 2. Mean responses from students regarding their opinions of various aspects of the infographic project.

A variety of questions were posed to gain feedback regarding how effective and enjoyable students had found participating in the project and developing their infographic (n = 46).



Project Outline



- We trialled this project with a Level 3 course (PY3002 Integrative Physiology), that had a mix of students of different disciplines, students articulating from FE colleges, and international exchange students. This course had previously used traditional scientific poster projects.
- At the end of the course, an anonymous, voluntary feedback questionnaire was circulated to the class. Likert scores were used to record opinions for each question.
- Of a class of 50, 46 students responded with feedback on this pilot initiative.

- undertake a similar project.
- Students seemed to feel positive about the project, were very engaged, and willing to be creative. No individual project was even remotely similar to another.
- Students appeared to give more thought as to how information should be presented and delivered for different audiences and became more critical of their own work.
- We fell this pilot initiative has been a success in terms of revitalising a project assignment, whilst teaching participants new skills and helping them further develop a range of graduate attributes.