

The Compair Team



Faculty Team

James Charbonneau, Science One, Physics & Astronomy Mark Maclean, Mathematics Tiffany Potter, English Rik Block, Integrated Science, Biology

Development team (CTLT)

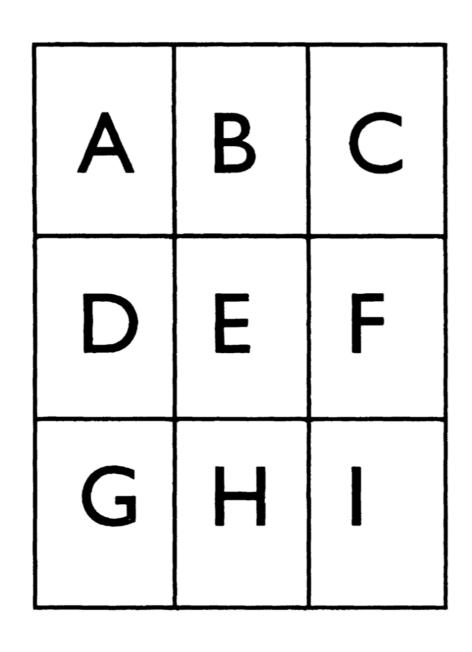
Letitia Englund Andrew Gardener
John Hsu Pan Luo
Michael Tang

Evaluation Strategies

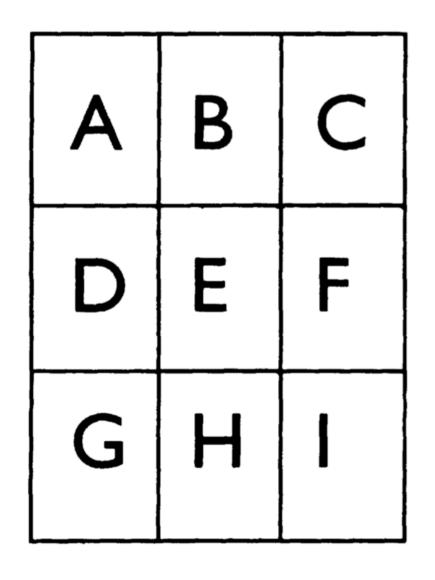
Ido Roll Firas Moosvi

(Some part of the project are much bigger than me now, so I'm likely missing people)

How would you describe this figure?



How would you describe it now?



A	D	G
В	E	Н
C	F	

Comparisons Facilitate Learning

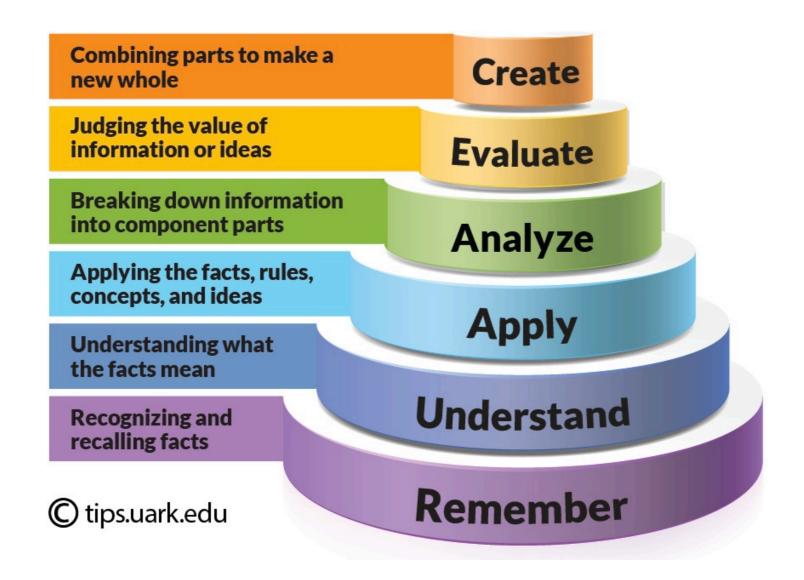
Contrasting cases allow us to highlight features or concepts that students might otherwise miss, and also "set the stage" for future noticing.



Bransford, J., & Schwartz, D. (1999). Rethinking Transfer: A Simple Proposal with Multiple Implications. Review of Research in Education, 24, 61-100.

Schwartz, D. L., & Bransford, J. D. (1998). A time for telling. Cognition and Instruction, 16(4), 475-522.

Comparisons are Easier for Novices



Thurstone's Law of Comparative Judgement (paraphrased):

It is much easier to say that A is better than B, than give each an absolute score or give an overall absolute rank of assignments (expert behaviour)

Thurstone, L.L. (1927). A law of comparative judgement. Psychological Review, 34, 273-286.

What is ComPAIR?

Free, Open Source (GPL v3 licence) Software designed and built at UBC to facilitate assignments and peer evaluation/feedback built around comparisons.





compairdemo.ctlt.ubc.ca

- 1. Go to the following link: compairdemo.ctlt.ubc.ca
- 2. Choose **Student** account
- 3. Click on the ComPAIR Demo Course
- 4. Answer the "What is the best film of all time?" question
- 5. When you're done answering, start comparing!



A Please note this is a demo site. Any changes you make will reset at 3 a.m. Pacific Standard Time.

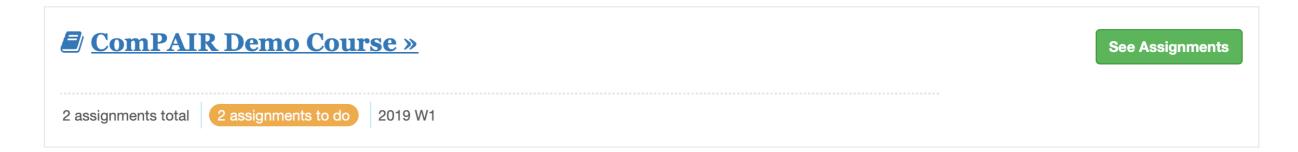


ComPAIR Learning Application

Welcome to the ComPAIR tool! With this tool, you will show your understanding of course content by answering the assignments posted by your instructor and then comparing pairs of your peers' answers and offering constructive feedback on how they can improve.

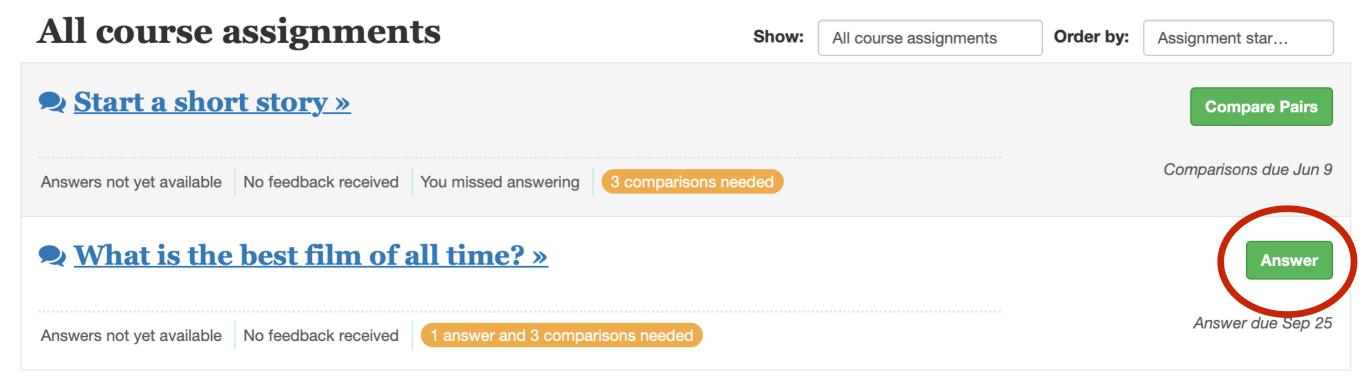
Your courses

If you don't see the course(s) you expect below: 1) check your registration in the course (for example, see if you have access to the course in Canvas) and contact UBC IT support to register, then 2) if your course has a Canvas site, click the ComPAIR link from there once. For further help, contact ComPAIR technical support.



ComPAIR Demo Course (2019 W1)

For each assignment below, you will first submit your own answer. Then you will compare pairs of anonymous peer answers. Try to make your answer as strong as possible, since your peers will also read and compare it anonymously with other answers.



Answer

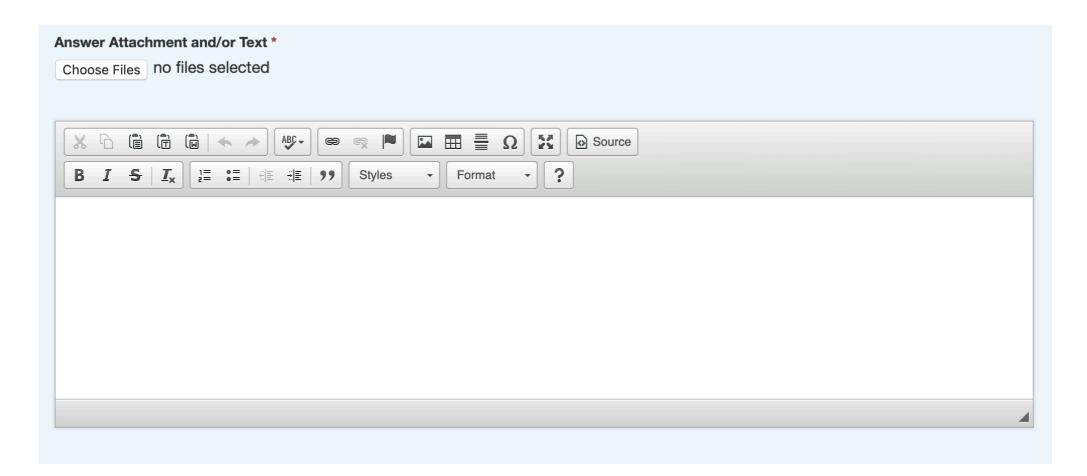
Answer the assignment with a file attachment and/or response in the text editor. Please note **answers are not automatically saved** as you type. However, you may manually save a draft of your answer below.

➤ Show description for assignment "What is the best film of all time?"

♥ What is the best film of all time?

Assignment after comparison period (with external links to images and videos)

Share the best film ever produced. Include a short summary (one sentence) and include a compelling clip or screen from the film. Then provide reviews and evaluations on three pairs of your peers' chosen film. (You will in turn receive peer feedback on your own chosen film.)



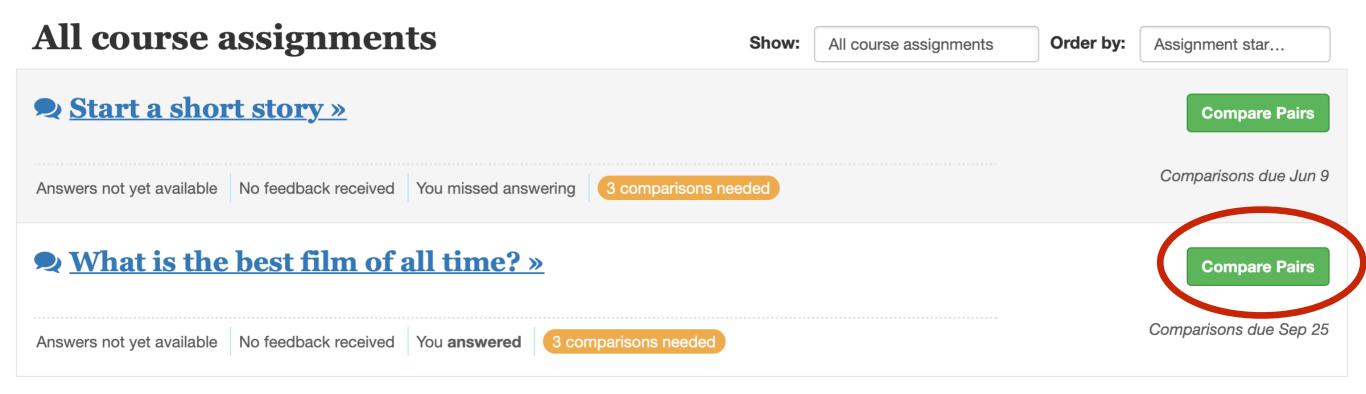
* = required (please make sure these areas are filled in)

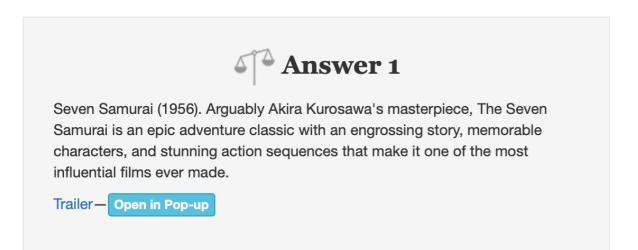
Submit

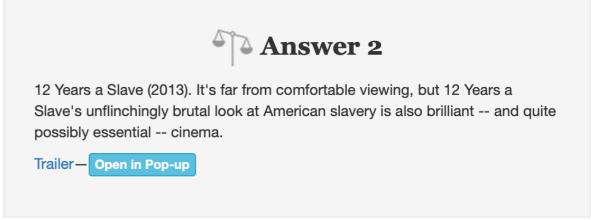


ComPAIR Demo Course (2019 W1)

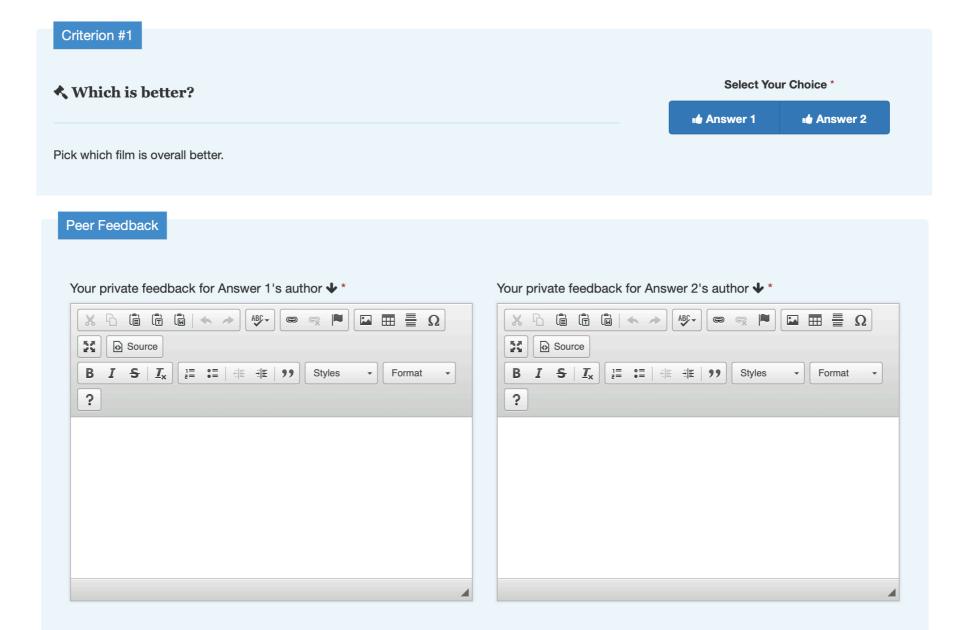
For each assignment below, you will first submit your own answer. Then you will compare pairs of anonymous peer answers. Try to make your answer as strong as possible, since your peers will also read and compare it anonymously with other answers.







1) Choose the answer that best meets the criteria below



Which Courses Currently Use ComPAIR?

ComPAIR used by at least 50 courses and 5600 students across UBC. Instances are also being run at Capilano University, Western, Waterloo, St Johns high School, and University of New Brunswick.

APSC 366 - The Art of the Possible

ASIA 354 - Introduction to Japanese Cinema

ASTU 204 - Topics in Interdisciplinary Studies in the Humanities

BIOL 200 - Fundamentals of Cell Biology

BIOL 463 - Gene Regulation in Development

COMM 462 - Integrated Marketing Communication

CONS 330 - Conservation Science and Sustainability

ENGL 110 - Approaches to Literature

ENGL 489 - Language Majors Seminar

ENPH 352 - Laboratory Techniques in Physics

ISCI 360 - Systems Approaches to Regional Sustainability

ISCI 422 - Models in Science

PHYS 333 - Climate and Energy

MATH 110 - Differential Calculus

MATH 104 - Differential Calculus with Applications to Commerce and Social Sciences

MATH 317 - Calculus IV

POLI 380 - Quantitative Methods in Political Science

SCIE 001 - Science One

VISA 110 - Foundation Digital Visual Arts

WRDS 150 - Research and Writing in the Humanities and Social Sciences

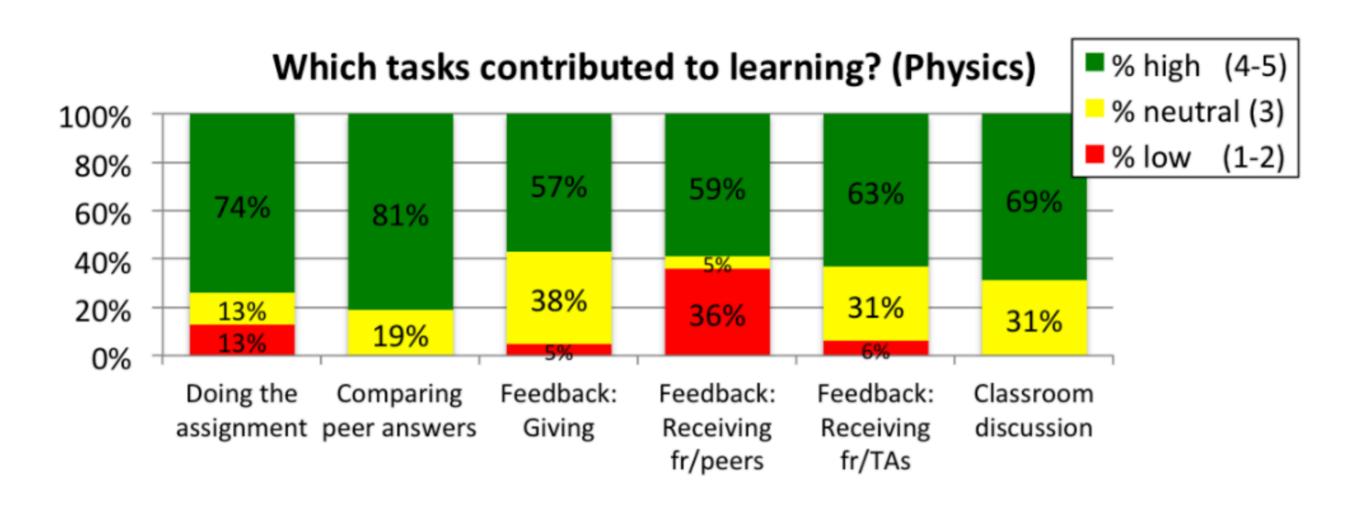
WRDS 350 - Interdisciplinary Studies in Arts

An Example in PHYS 333

- 1. Students generate questions in ComPAIR
 - What would you like this course to answer?
 - "If we changed all the gasoline transmission in Vancouver to electric transmissions, what would be the change int he atmosphere after 1 year?"
- 2. Students work on problem in Piazza facilitated by instructor
 - Understand the Problem (week 1)
 - Make a Plan (week 2)
 - Individually write up and submit problem to ComPAIR (week 3)
- 3. Students do comparisons in ComPAIR with self reflection (week 4)

Students are graded on the quality of feedback and self reflection they give while doing comparisons.

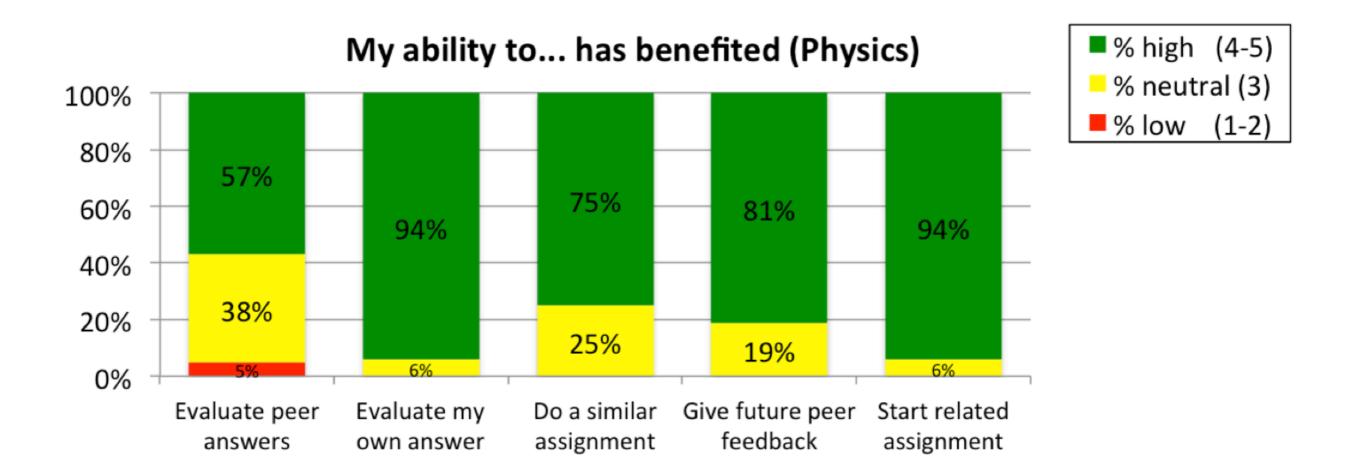
Learning Happens While Comparing



Students report that doing the comparisons is where they felt the most learning occurred.

POTTER, Tiffany et al. ComPAIR: A New Online Tool Using Adaptive Comparative Judgement to Support Learning with Peer Feedback. **Teaching & Learning Inquiry**, [S.I.], v. 5, n. 2, p. 89-113, sep. 2017. ISSN 2167-4787.

Students Think it's Useful



Student's enjoy using the tool and self report that it's useful for learning. We're still trying to evaluate learning directly (it turns out this is tricky).

Thanks for listening!



Email/Post on Google Group compair@googlegroups.com if you're interested in how to set up an installation at your university or high school or asking questions about ComPAIR. Also join Google group for latest update on ComPAIR.

(If you're at UBC it's already in Canvas!)

Arts Guide: <u>isit.arts.ubc.ca/compair/</u>

LTH Guide: ltm.ubc.ca/guides/compair

ComPAIR Demo: compairdemo.ctlt.ubc.ca

ComPAIR Code: github.com/ubc/compair