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Ask not only 'What can problem-based learning do for psychology?' but 'What can psychology do for problem-based learning?' A review of the relevance of problem-based learning for psychology teaching and research

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Table 2: List of published examples of PBL used in higher education psychology courses

Author/s & Date	Psychology course	University	Brief description
1. Adams & Jordan (2012)	Ecopsychology	University of Brighton, England	Single optional module (final year undergraduate); up to 30 students. Five topic areas covered. PBL follows lecture/seminars. Assessed by group presentation & individual essay.
2. Ball & Pelco (2006)	Research methods	College of William & Mary, USA	Single module (second year undergraduate); 40 students in class. Floating facilitator, 3 projects over the semester (5 weeks for each). Assessed by group presentation & individual report.
3. Bozic & Williams (2011)	Educational psychology	University of Birmingham, England	Online PBL for 2-6 weeks during placement period of doctorate study; circa 10-12 students in class. Assessed by group writing and presentation tasks.
4. Chernobilsky et al (2004)	Educational Psychology	Rutgers University, USA	One PBL semester covering 7 problems (14 weeks) of doctorate; circa 30 students in class. Assessed by group presentation & report & individual exams.
5. Connor-Greene (2002)	Abnormal psychology	Clemson University, USA	Single module. Combines PBL with service learning. One project over one semester. Assessed individually, as group, and for editing group members' work.
6. Elder (2015)	Research methods	Mississippi State University, USA	One-off PBL activity in single 75-minute session of a final year module (circa 20 students).
7. Guiller, Durndell, Ross & Thomson (2007)	Introductory psychology	Glasgow Caledonian University, Scotland	Single module (first year undergraduate), circa 400 students in class. One problem per group, mix of F2F and online work, conducted over semester alongside other tasks. Assessed by group presentations.
8. Hays & Vincent (2004)	Forensic and applied psychology	University of Texas Houston Medical School, USA	PBL across 3 modules of undergraduate degree: mixture of mostly PBL with some lectures. Class sizes between 7-22 students.

9. Jones (2013)	Psychology and Advertising	Leeds Trinity University, England	Single optional module (final year undergraduate). Four topics covered. Assessed by individual exam.
10. Karantzas et al (2013)	Social Psychology of Relationships	Deakin University, Australia	4 x two-hour tutorials, based on 'choose your own adventure' novels. 273 students in the class.
11. Karpiak (2011)	Research methods (statistics)	University of Scranton, USA	Series of problems to cover statistical topics. Assessed by group & individual exams. 30-50 students in the class.
12. Kiernan, Murrell & Relf (2008)	Clinical (and forensic) psychology	Charles Sturt University, Australia	Part residential, part online (six cases presented). Online questions and course participation monitored.
13. Kreiner (2009)	Sensation and perception	University of Central Missouri, USA	14 short activities; 54 students in the class. Assessed by online quizzes, group written report and brief presentation.
14. Muehlenkamp et al (2015)	Introductory psychology class	University of Wisconsin-Eau Claire, USA	16-week class, 5 problems (one with open choice for students). Structured activities & use of lectures. Assessed by individual online quizzes, essay and group presentation.
15. Nel et al (2008)	Clinical psychology	University of Hertfordshire, England	5 x PBL exercises combined with lectures (see also: <a href="http://www.ramk.fi/loader.aspx?id=ad79f622-de29-4238-870c-bf10fdaaed14">http://www.ramk.fi/loader.aspx?id=ad79f622-de29-4238-870c-bf10fdaaed14</a> ). Assessed by group presentations
16. Norton (2004)	Counselling psychology	Liverpool Hope University College, England	Uses 'psychology applied learning scenarios' (PALS). Assessed by group presentations and individual essay. Self-assessment of group contribution also used.
17. Papageorgiou et al (2015)	Whole psychology degree	University of Nicosia, Cyprus	Book outlining recommended structure and content of PBL courses for undergraduate psychology. Includes timetables and problem scenarios.
18. Razzak (2012)	Educational psychology	University of Bahrain, Bahrain	PBL over two-week period. Assessed by group presentations.
19. Reynolds (1997)	Life stages and Assessment Methods	Brunel University, England	Six problems over two terms (3-4 weeks per problem). Notes the multi-disciplinarity of the students' work. Some lectures used later in the course.

20. Searight & Searight (2009)	Psychology of the Exceptional Child and Adolescent	Lake Superior State University, USA	Small classes (up to 9 students, across different disciplines including psychology) using case studies. Provides structure for '4 step' process.
21. Stedmon et al (2005)	Clinical psychology	Universities of Exeter and Plymouth, England	PBL over a single 6-8 week block. Hybrid curriculum (PBL & lectures). Assessed by group presentation and individual summary.
22. Wiggins & Burns (2009)	Research methods (qualitative)	University of Strathclyde, Scotland	Single module (final year undergraduate); circa 30 students in class. Three problems used over 12 weeks total. Assessed by individual written reports.
23. Willis (2002)	General psychology,	Samford University, USA	PBL integrated across 7 modules in psychology course; circa 30 students in total. Hybrid (half PBL, half lectures)
24. Yandell & Giordano (2008)	Introduction to psychological science	Belmont University, USA	PBL applied to two courses (one psychology, one interdisciplinary). Uses group, self and peer-assessment, as well as product and process assessments.