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**Manuscript Group 105
Dr. John D. Baker Papers**

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Dr. John D. Baker Papers, Manuscript Group 105
Indiana University of Pennsylvania, Special Collections and University Archives
1 box, 1 linear foot

Biographical Note

Dr. John Douglas Baker was a Professor in the Mathematics Department at Indiana University of Pennsylvania from September 1996 until his retirement in December 2014. During his 18-year tenure at IUP, Dr. Baker taught undergraduate and graduate courses with a focus on elementary and middle school mathematics education. Prior to his appointment at IUP, he was a Lecturer at the University of Wisconsin-Eau Claire in 1995-1996. Dr. Baker earned his PhD in Mathematics Education from Indiana University in Bloomington, Indiana. Before earning his doctorate, he had experience teaching elementary and middle school in Portland, Oregon.

Scope and Content Note

The collection includes research notes and conference materials from professional development activities including presentations and workshops that Dr. Baker participated in between 1995 and 2014 including his interview presentations at IUP in March 1996. Dr. Baker has made many presentations on integrating technology into classroom mathematic lessons at National Council of Teachers of Mathematics (NCTM) national and regional conferences. He taught a graduate mathematics course in technology for teachers in elementary and middle schools, and he often used technology in his college courses.

Provenance

Donated by Dr. John D. Baker.

Restrictions

None, this collection is available for research.

Processor

Processed by Harrison Wick on December 8, 2014.

Container List

Box 1 Dr. John D. Baker Papers (41 folders)

1. Curriculum Vitae, 2014
2. CD of Professional Development Activities (Electronic Documents: Microsoft Office) Folders:
 - a. Adult Education Workshops, 2011-2014
 - i. 2013 Hawaii International Conference on Education (HICE) Adult Education (Paper and PowerPoint)
 - ii. ARIN Workshops: GED Workshops, Career Link, Indiana, Pennsylvania, 2011-2012 and 2014
 - b. Assessment Conference Presentations, 1997-1998
 - i. National Council of Teachers of Mathematics (NCTM) National, 1997 Parts A-B
 - ii. National Council of Supervisors of Mathematics (NCSM) National, 1998 Parts A-B

- c. Average & the Mean, 1999, 2001, and 2003
 - i. National Council of Teachers of Mathematics (NCTM) National, 1999 Parts A-C
 - ii. NCTM National, 1999 Power Point Presentation
 - iii. NCTM National, Texas, 2003
 - iv. NCTM Regional, New Jersey, 2001
 - v. Pennsylvania Council of Teachers of Mathematics (PCTM), 2001 Parts A-B
 - vi. SEQual Workshop, 2001
 - d. Elections & Math, 2004, 2008, 2010, 2013
 - i. Hawaii International Conference on Education (HICE) International, 2010 (Lesson 2, Presentation, Proceedings, and Power Point Presentation)
 - ii. National Council of Teachers of Mathematics (NCTM) National, 2000 Parts A-C
 - iii. NCTM National, 2008 (Election Math, Excel Documents, Lesson 2, Presentation Notes, Power Point Presentation)
 - iv. PCTM, 2013 (Presentation Notes, Power Point Presentation, and Support Documents)
 - v. Workshop for Collaboratives for Excellence in Teacher Preparation (CETP), 2004
 - vi. Workshop for CETP, 2008 for Teachers
 - vii. Workshop for Kappa Delta Pi (KDP), 2010 Power Point Presentation
 - viii. Workshop for Teachers Evolve And Change with Help (TEACH), 2010 Power Point Presentation
 - e. Indiana Area School District (IASD) Algebra Workshop, 2014
 - i. IASD Algebra Workshop Handouts, March 14, 2014 (2 documents)
 - ii. IASD Algebra Workshop Schedule, March 14, 2014
 - f. Technology in Teaching, 1997-2000
 - i. MCWP Regional, 1997
 - ii. National Council of Teachers of Mathematics (NCTM) National, 1997 Parts B-C
 - iii. NCTM National, 1998 Parts A-B
 - iv. NCTM Regional, Pennsylvania, 1999 Parts A-B
 - v. NCTM Canadian Regional Conference, Halifax, Nova Scotia, 2000 Parts A-C
 - vi. NCTM Regional, Pennsylvania, 2000 Parts A-B
 - g. Tutoring, 2005 and 2007
 - i. HICE International, 2007 (After School Math Hawaii Paper)
 - ii. HICE International, 2007 Presentation
 - iii. NEERO, 2005 (After School Tutoring)
 - h. Curriculum Vitae, 2014
3. Lecture on Van Hiele Hierarchical Model of Geometric Thought, MATH 305, Fall 1995
 4. Introduction to Teacher Workshop for twenty-six K-5 teachers, Lincoln Elementary School, Eau Claire, Wisconsin, February 1996
 5. Presentation: Some Characteristics of Students' Difficulty with Mathematics, IUP Interview, March 1996
 6. Presentation: The String Game, IUP Interview, March 1996
 7. Presentation: Students' difficulty with proof by Mathematical Induction, the Annual Meeting of the American Educational Research Association (AERA), New York City, April 6-8, 1996
 8. Presentation: Teaching Ratio in a Tech Prep Curriculum, Spring 1996 (UW)

9. Teacher Workshop on Manipulatives, Punxsutawney Area Schools, February 12 and 26, 1997
10. Presentation: Reforms in Mathematics Education, Joint Mathematics Meetings, San Diego, California, January 8-11, 1997
11. Assessment Session, National Council of Teachers of Mathematics (NCTM) Conference, April 17-20, 1997
12. Presentation: Hands-on explorations of Elementary School Mathematics Software, Joint Fall Meeting of Mathematics Council of Western Pennsylvania and Mathematics Association of America (Allegheny Mountain Section), October 4, 1997
13. Presentation: Ideas for bringing technology into the Elementary School Mathematics Classroom, NCTM Conference, Cleveland, Ohio, November 7, 1997
14. Presentation: Integrating Teacher-Friendly Assessment in the Curriculum, National Council of Supervisors of Mathematics (NCSM) Conference, March 30-April 1, 1998
15. Presentation: Ideas for getting technology into your Mathematics Lessons, NCTM, Washington, DC, April 2-4, 1998
16. Presentation: Problem-Solving Lessons for Understanding Average, NCTM, San Francisco, California, April 22-24, 1999
17. Presentation: Recipes for adding technology to your Mathematics Lessons, NCTM Eastern Regional Meeting, Pittsburgh, Pennsylvania, 1999
18. Blairsville-Saltsburg Math and Special Education Workshop, February 17, 2000
19. Presentation: Off-the-shelf lessons and Off-the-shelf software, NCTM Annual National Meeting, Chicago, Illinois, April 12-15, 2000
20. Presentation: Technology that is easily added to Mathematics Lessons, NCTM Canadian Regional Conference, Halifax, Nova Scotia, July 19-22, 2000
21. Presentation: Recipes for Adding Technology to Your Mathematics Lessons, NCTM Eastern Regional Conference, Philadelphia, Pennsylvania, October 12-14, 2000
22. Presentations at Technology Colloquia: Recipes for adding technology to Middle School Mathematics Lessons, California Polytechnic, February 2001; Technology in Research and School Mathematics Lessons, Sonoma, March 2001
23. Presentation: Getting your hands on Average, Pennsylvania Council of Teachers of Mathematics (PCTM), March 15-17, 2001
24. Presentation: Getting your hands on Average, SEQuaL, Indiana, Pennsylvania, October 5, 2001
25. Presentation: Getting your hands on Average, NCTM Eastern Regional Conference, Somerset, New Jersey, October 25-27, 2001
26. Presentation: Hands-on Activities for Understanding the mean, NCTM Annual Meeting, April 9-12, 2003
27. IUP Colloquium Presentation: Reflections on simulation of satellite communications, Fall 2003
28. Fifth Grader Geometry Workshops at Purchase Line District North & South Schools, March 4-5, 2004
29. Presentation: Electoral Math – Elections, Congressional Apportionment, and the Electoral College; NCTM Southern Regional Conference, November 4-6, 2004
30. Presentation: University Tutors + Elementary Students = Successful Test Scores, New England Educational Research Organization (NEERO), April 27-29, 2005
31. Presentation: University Tutors + Elementary Students = Successful Test Scores, Hawaii International Conference on Education (HICE), January 6-9, 2007

32. Presentation: Electoral Math – Elections, Congressional Apportionment, and the Electoral College; Teacher Workshop for IUP-CETP, April 24, 2008
33. Presentation: Elections, Coalitions, and Sharing: Experiences from the Classroom, NCTM Annual Meeting, Washington, DC, April 22-25, 2009
34. Presentation: Using Elections to motivate math lessons: A collaboration with Katie Bungo's 5th Grade Class, Indiana, Pennsylvania, March 13, 2009
35. Presentation: A Simulation of US Presidential Elections, Hawaii International Conference on Education (HICE), January 7-10, 2010
36. Presentation: A Simulation of US Presidential Elections, Teachers Evolve And Change with Help (TEACH) Mini-Forum, IUP, March 27, 2010; and Kappa Delta Pi (KDP), 2010
37. Presentation: Refreshing Math Skills for the Workshop Act 48 Professional Development Workshop for the ARIN 28 Adult/ESL Program, Career Link, Indiana, Pennsylvania, April 29, 2011 and March 30, 2012
38. Presentation: Refreshing Math Skills for the Workforce, Hawaii International Conference on Education (HICE), January 6-9, 2013
39. Presentation: Voting, Math, and the Electoral College, Pennsylvania Council of Teachers of Mathematics (PCTM), Seven Springs, Pennsylvania, November 6-8, 2013
40. Presentation: Preparing students for the new GED Act 48 Professional Development Workshop for the ARIN 28 Adult/ESL Program, Career Link, February 27, 2014
41. Presentation: Indiana Area School District (IASD) Workshop on Grades 3-5 New Curriculum and PDE Common Core Algebra Standards, Indiana, Pennsylvania, March 14, 2014