

EDUCATIONAL BACKGROUND:

May, 1968 High school graduation

Martha Schofield High School

Aiken, South Carolina

June 10, 1972 Received Bachelor of Arts Degree in Biology

May 1983 Received Masters Degree in Mathematics Education

University of South Carolina

October 1988 Received Specialist Certification in Science

(Masters + 30 hrs.)

South Carolina State Department of Education

Teaching Certifications:

- 0. High School Mathematics
- 0. Middle School Mathematics
- 0. High School Biology
- 0. Middle School Science

Continuing Education Training:

Trained in South Carolina Maps and Aerial Photographic Systems Curriculum, TACTICS for Thinking Curriculum, Cooperative Learning Strategies, Efficacy for Educators, Activities that Integrate Math and Science (AIMS), Mathematics Their Way, Mathematics Manipulatives in Middle Grades, Family Math and Family Science, Teaching Integrated Mathematics and Science (TIMS), Quantitative Literacy Institute, Statistics Leaders in the Palmetto State Institute, and Multicultural Perspectives.

PROFESSIONAL EMPLOYMENT:

Summer 1991

Director, Summer Technical Enrichment Program; Sponsors: School

District of Aiken and Westinghouse SRS; Duties: Planned and coordinated the implementation of a six-week student program designed to promote engineering as a career option for minorities in such fields and to provide special application experiences for learning mathematics, science and communications skills. Supervised a staff of seven professionals.

Summer 1996

Director, Science and Technology Enrichment Program for Underrepresented Populations; Sponsors: SC State Department of Education, Ruth Patrick Science Education Center and the School District of Aiken; Duties: Planned and coordinated the implementation of a four-week student program designed to promote science and mathematics among minorities in rural areas and to provide special application experiences. Supervised a staff of eight educators.

July 1972 - January 1975

Environmental Research Biologist

E.I. DuPont de Nemours

Savannah River Laboratory

Aiken, SC

Duties: Designed and implemented experiments to examine the movement of radioactive cesium through an old field community in seepage basins; designed and implemented experimental activities to examine the effect of reactor effluent on the snail populations of Par Pond; subjected Par Pond data to various statistical tests using the SAS software; Reason for leaving: Resigned because my husband was relocated.

September 1977 - August 1985

Classroom teacher, middle school mathematics

Aiken County Public Schools

Jefferson Junior High and LBC Middle Schools, Bath SC

Duties: Normal responsibilities associated with teaching. Math Club sponsor, math department chairperson; Reason for leaving: Transferred to the Instructional Improvement Department as a temporary assignment (later made permanent).

August 1985 - August 1991

Math/Science Curriculum Specialist, Grds. K-12

Aiken County Public Schools

Aiken, SC

Duties: Four primary types of duties: 1) Provide instruction-related assistance as requested to pre-service and inservice teachers, administrators, students and parents. Assistance includes answering policy questions, locating resources, providing materials and information, giving advice on curriculum matters, and troubleshooting computer hardware and software problems; 2) Develop and implement programs and curricula to meet specific instructional needs; 3) Coordinate federally-sponsored, state-sponsored and district-sponsored programs, projects, committee activities, and events in the areas of mathematics and science for grades K-12; 4) Design and present staff development workshops in the areas of math and science; During 1988-89 the above duties also included health education; Reason for leaving: Accept a position with the newly opened Ruth Patrick Science Education Center.

September 1991 - Present

Program Director, Ruth Patrick Science Education Center

Instructor, School of Education

University of South Carolina at Aiken

Aiken, SC

Duties: Instructor for mathematics and science education courses:

SMED769D Teaching Integrated Mathematics and Science; SMED769I Implementing the NCTM Standards in the Middle Grades; SMED 769F Using Real Data to Motivate Students to Learn Mathematics; EDUC633M Using Math Manipulatives in Middle Grades; AEDC310 Clinical Observation and Analysis; and AEDS471 Directed Teaching in Secondary Mathematics. Supervise student teachers. Design and present programs for teachers and students who visit the Center. Conduct tours through the Center. Provide curriculum assistance and advice to teachers. Present workshops in the areas of mathematics and science. Write grants.

AWARDS, HONORS AND GRANTS:

Aiken County Public Schools Teacher of the Year, 1983-84

Outstanding Contribution to Education Program Award Recipient (S.C.ASCD), 1988

Summer Technical Enrichment Program Grant from Westinghouse SRS, 1991

Efficacy Seminar Grant from Westinghouse Savannah River Company, 1991

Outstanding Service in Science and Engineering Award from Links, Inc., 1992

S.C. Department of Education Award for Significant Contributions to S.C.'s Public Schools, 1991-92

Phi Delta Kappa Charter Member, 1992

Teaching Nuclear Topics Grant, 1992

Department of Energy Teacher Preparation Grant, 1992-93

Teaching Radiation Energy And Technology Grants, 1993, 1994, 1995, 1996

Physics for the Technologies, 1993-94

Science Teaching and Revitalization Team SCUREF Grant, 1994-97

Science & Technology Enrichment Prgm. for Underrepresented Populations Grant, 1995-96

PROFESSIONAL AFFILIATIONS:

South Carolina Council of Teachers of Mathematics (SCCTM), since 1979

NCTM representative for SCCTM, 1991

South Carolina Science Council ((SC)2), since 1985

South Carolina Council of Supervisors of Mathematics (SCCSM), since 1986

National Council of Teachers of Mathematics (NCTM), since 1985

Ruth Patrick Science Education Center Coordinating Committee, since 1987

Phi Delta Kappa since 1992; 1992-93 Vice-President for Programs

PROFESSIONAL CONFERENCE PRESENTATIONS AND SHORT COURSES:

Johnson, Gwendolyn and Others. "SUPERSTARS Elementary Mathematics Problem Solving Program." S.C. Dept. of Education Summer Workshop, Lexington, SC, Aug. 1988.

Johnson, Gwendolyn and G. Allen. "Motivating Students in Mathematics with a Student Math Fair." South Carolina Council of Teachers of Mathematics Fall Conference; Greenville, SC; November, 1990.

Graves, Pam, J. Priest, and G. Johnson. "Teaching in the Great Outdoors." NSTA Soviet-American Science Teachers Conference;

Moscow, Russia; July, 1991.

Graves, Pam and G. Johnson. "The Russian Experience." South Carolina Science Council Fall Convention; Myrtle Beach, SC; November, 1991.

Johnson, Gwendolyn and J. Priest. "Sowing the S.E.E.D. for Tomorrow." NSTA Regional Convention; Reno, Nevada; December, 1991.

Johnson, Gwendolyn. "Sowing the S.E.E.D. for Tomorrow." South Carolina Science Council Convention; Columbia, S.C.; November, 1992.

Johnson, Gwendolyn. "S.T.E.P. into a World of Engineering." South Carolina Science Council Convention; Columbia, S.C.; November, 1992.

Johnson, Gwendolyn. "TIMS: Techniques for Integrating Mathematics and Science." South Carolina Science Council Convention; Columbia, S.C.; November, 1992.

Johnson, Gwendolyn. "TIMS: Techniques for Integrating Mathematics and Science." South Carolina Council of Teachers of Mathematics Fall Conference; Hilton Head, S.C.; November, 1992.

Johnson, Gwendolyn. "Meaningful Mathematics through Manipulatives, Grades K-6." Thirty-hour short course; St. John the Baptist Parish, School District Math Conference; LaPlace, LA; February 16-19, 1993.

Johnson, Gwendolyn. "Creating a Culturally Inclusive Science Classroom with Archaeological Data." South Carolina Science Council Convention; Spartanburg, S.C.; November, 1993.

Johnson, Gwendolyn. "Creating a Culturally Inclusive Science Classroom with Archaeological Data." South Carolina Council of Teachers of Mathematics Fall Conference; Greenville, S.C.; November, 1993.

Johnson, Gwendolyn. "Data in the Classroom." NCTM Regional

Conference; Richmond, VA.; February, 1994.

Johnson, Gwendolyn. "Mathematics and Science Activities for Elementary Teachers." Thirty-hour short course; Gardner, Massachusetts; June 27-July 1, 1994.

Johnson, Gwendolyn. "Spacey Math." Third Carolinas Mathematics Conference; Charlotte N.C.; October 4, 1994.

Johnson, Gwendolyn. "Family Math and Family Science Leadership Training for Middle Grades." Twenty-hour short course; School District of Aiken County, S.C.; November, 1994.

Johnson, Gwendolyn. "Family Math and Family Science Leadership Training for Primary Grades." Twenty-hour short course; Busbee Elementary School Faculty Inservice; February, 1995.

Johnson, Gwendolyn. "Family Math and Family Science Leadership Training for Middle Grades." Twenty-hour short course; Pee Dee Hub Multidistrict Workshop; Florence, S.C., March 9-11, 1995.

Johnson, Gwendolyn. "Family Math and Family Science Leadership Training for Primary Grades." Twenty-hour short course; Kelly Edwards Elementary School Faculty Inservice, Williston, S.C.; April 18-20, 1995.

Hare, Harriet, Gwendolyn Johnson, and Tom Spatz. "Edible Optics and Other Traveling Science Demonstrations." International Conference of the National Science Teachers Association; Ocho Rios, Jamaica, July 1995.

Johnson, Gwendolyn. "Family Math and Family Science Leadership Training for Middle Grades." Twenty-hour short course; Allendale County Schools; Allendale, S.C., September 6-8, 1995.

Johnson, Gwendolyn. "Family Math and Family Science Leadership Training for Middle Grades." Twenty-hour short course; Edgefield County Schools; Edgefield, S.C., September 13-15, 1995.

Johnson, Gwendolyn. "Family Math and Family Science Leadership Training for Primary Grades." Twenty-hour short course; Berkely-

Dorchester Hub Multidistrict Workshop; Monks Corner, S.C.; October 24-26, 1995.

Johnson, Gwendolyn. "Spacey Math: Activities for Grades 4-8 that Develop Spatial Sense." South Carolina Council of Teachers of Mathematics Fall Conference; Myrtle Beach, S.C.; November 2, 1995.

Hare, Harriet, Gwendolyn Johnson, Happy Parker, and Tom Spatz. "Edible Optics and Other Traveling Science Demonstrations." South Carolina Science Council Convention; Myrtle Beach, SC, November 21, 1995.

Johnson, Gwendolyn. "Family Math and Family Science Leadership Training for Primary Grades." Twenty-hour short course; Macedonia Elementary School Faculty Inservice; November 8, 9, and 21, 1995.

Johnson, Gwendolyn. "Family Math Leadership Training for Middle Grades." Fifteen-hour short course; Georgetown County, S.C. Inservice; January 11-12, 1996.

Johnson, Gwendolyn. "Family Math Leadership Training for Primary Grades." Fifteen-hour short course; Riverside Elementary Faculty Inservice; March 22-23, 1996.

Johnson, Gwendolyn. "Family Math and Family Science Leadership Training for Middle Grades." Twenty-hour short course; Horry County, S.C. Inservice; June 4-6, 1996.

PUBLICATIONS:

Johnson, Gwen. "Turning On To Science: A Report". **A MATTER OF FACTS**. Newsletter of South Carolina Science Council, Nineteenth Edition, March 5, 1987.

"Community SEED Blooms", **SCIENCE AND CHILDREN**, 27(6), 42.