



## Algebra Through Visual Patterns, Grades 6–10

Learn ways to teach algebraic concepts with concrete visual representations. Develop strategies to deepen understanding while exploring activities related to patterns, relations, and functions. Workshop participants will use lessons from *Algebra Through Visual Patterns*, a collection of student activities designed for algebra instruction.

Algebra Through Visual Patterns offers a genuine alternative to the usual algebra course. It calls for an approach to learning in which students:

- Explore algebraic concepts using manipulatives, models and sketches.
- Engage in meaningful discourse on their learning of mathematics.
- Present their methods, rationale, and solution to problems, both orally and in writing.
- Build on existing knowledge to increase their understanding.

This workshop is for teachers whose students have varying backgrounds and abilities, including those who have been judged unsuccessful in previous algebra courses as well as students learning algebra for the first time. It is valuable for special education teachers and is appropriate for those who work with talented and gifted students.

### Text & Materials

Participants receive the two-volume teachers guide, *Algebra Through Visual Patterns* at the first class.

### Instructor(s)

**Paul Griffith** has been teaching since 1978, and his experiences range from a one-room school to staff development and university classes. He brings to his workshops 19 years of middle school experience and mathematics education at George Fox University and Portland State University.

### How can we help?

Contact The Math Learning Center at 1-800-575-8130 or visit our web site at [www.mathlearningcenter.org](http://www.mathlearningcenter.org).

### REGISTER TODAY

Call 1-800-575-8130 with Visa or Mastercard or fax form to 503-370-7961. You can also mail this completed form with check, credit card number, or PO to The Math Learning Center, P.O. Box 12929, Salem, OR 97309. Full payment of the noncredit fee is due upon registration. A \$25 non-refundable cancellation fee per workshop applies.

**Course Information**

Algebra Through Visual Patterns, Grades 6–10

**Section:** A15

**Dates:** August 6, 7, 8, 9, 10, 2012

**Time:** Monday–Friday  
8:00 a.m. - 3:00 p.m.

**Location:** George Fox University  
12753 SW 68th Ave  
Portland, OR 97223

**Fee:** \$500 noncredit  
Payable to  
The Math Learning Center

**Optional University Credit**  
*Three (quarter-hour) graduate credits*

Optional credit through Western Oregon University.  
\$150 for three quarter-hour graduate credits.  
A-F or Pass/No Pass grading.  
Details sent upon registration.



### Algebra Through Visual Patterns, Grades 6-10 Section: A15 Three (quarter-hour) graduate credits (optional)

FIRST NAME, MI, LAST NAME			
HOME ADDRESS			HOME PHONE
CITY			SCHOOL PHONE
SCHOOL	STATE	ZIP CODE	GRADE LEVEL
PAYMENT METHOD <input type="checkbox"/> CHECK OR MONEY ORDER <input type="checkbox"/> VISA <input type="checkbox"/> PURCHASE ORDER <input type="checkbox"/> MASTERCARD			EMAIL
CREDIT CARD NUMBER OR PO NUMBER			EXPIRATION DATE
SIGNATURE			