



# 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.

## ADDITIONAL INFORMATION

### Text & Materials

All participants receive the two-volume teachers guide, *Algebra Through Visual Patterns* and the Algebra Through Visual Patterns manipulative kit.

### Instructor

**Paul Griffith** has been teaching middle school students for eighteen years and has worked with both low achieving and gifted students.

### 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).



## DETAILS

### Algebra Through Visual Patterns, Grades 6–10

Section: A75 Mth 805  
3 (quarter-hour) graduate credits

### Dates

June 28–July 2, 2010

### Time

Monday–Friday; 8:00am–3:00pm

### Location

George Fox University  
Portland Center  
12753 SW 68th Ave  
Portland, OR 97223

### Fee

\$450 noncredit.  
Payable to The Math Learning Center

### Optional University Credit

Optional credit through Western Oregon University.  
\$150 for 3 quarter-hour graduate credit. A–F or Pass/No Pass grading. Details sent upon registration.

## REGISTER TODAY

### ☎ Telephone/FAX with Visa or MasterCard:

TEL 1 800 575–8130  
or 503 370–8130,  
FAX 503 370–7961

### ✉ Mail with check, credit card number, or school PO to:

The Math Learning Center  
PO Box 12929  
Salem, OR 97309-0929

Full payment of the noncredit fee is due upon registration. A \$25 non refundable cancellation fee per workshop applies.

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FIRST NAME, MI, LAST NAME	SSN / ID NUMBER
HOME ADDRESS	HOME PHONE ( )
CITY STATE ZIP CODE	SCHOOL PHONE ( )
SCHOOL	GRADE LEVEL
PAYMENT METHOD <input type="checkbox"/> Check or Money Order <input type="checkbox"/> Purchase Order	Charge to Credit Card: <input type="checkbox"/> Visa <input type="checkbox"/> MasterCard
EMAIL <input type="checkbox"/> HOME <input type="checkbox"/> WORK	

CREDIT CARD NUMBER — — —	EXPIRATION DATE
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SIGNATURE
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