

A MAGIC SQUARE SQUARED

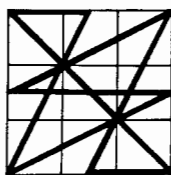
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All magic squares follow a set pattern which may be reflected, translated, or rotated. At the fifth grade level, we learn the pattern for a third order magic square, draw the geometric design, and construct tessellations. The procedure is as follows.

LEARN

4	3	8
9	5	1
2	7	6

DRAW



CONSTRUCT

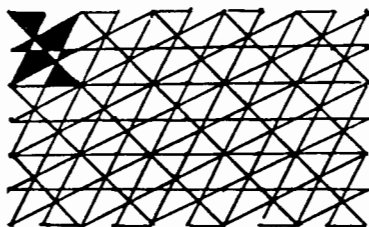


Fig. 1.

At this point, most fifth-graders have reached their outer-limits, but the lesson may be extended to develop a magic square of huge proportions.

Step one – Learn the pattern.

Step two – Choose the set of multiples you are going to work with – any consecutive set of multiples will work.

Step three – Construct nine consecutive magic squares, each one 3 x 3. You have a choice here. If your first square runs 1–9, your second square may begin with 2 or 10. Choose your sequence and stay with it. If you want to extend this further, I would suggest staying with multiples of one and starting your second square with 10.

Step four – Place your nine magic squares on a larger 3 by 3 grid – follow the original pattern.

