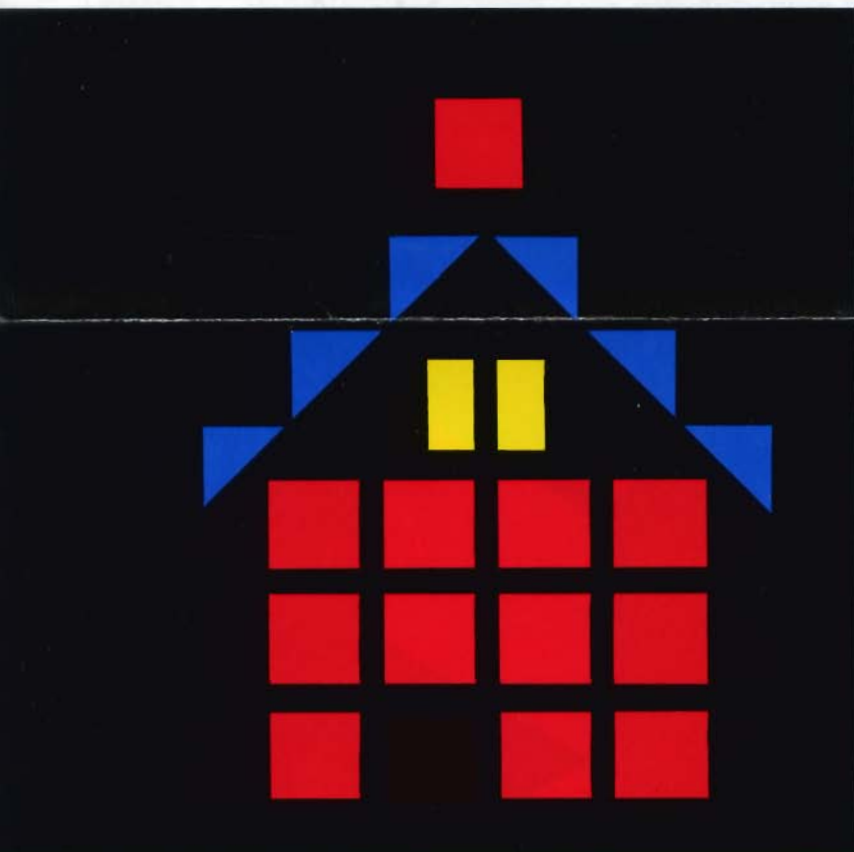


DANCE SQUARED

AN ENCOUNTER WITH GEOMETRICAL SHAPES THAT CHILDREN CAN READILY UNDERSTAND AND ENJOY.



As the title suggests, *Dance Squared* employs movement, color and music to explore the symmetries of the square.

Every movement of the square and its components presents an opportunity to observe its geometrical properties in a way that is intriguing to young minds.

With basic concepts firmly grasped, the young student is then prepared to experiment on his own.

Many folk dances embody elaborate symmetries. It has been said that Egyptian symmetric patterns are the first recorded examples of higher mathematics in human history and that it is possible the idea of symmetry was first recognized in the dance.

In *Dance Squared* this idea is amusingly developed. On the screen brightly colored geometric shapes divide, sub-divide and gyrate as people do in a square dance. Geometrical concepts underlie every movement and suggest many ideas for a mathematics class to investigate—for example: Why do the colors change as they do? What shapes are used? What other combinations are possible?

Dance Squared will interest everyone, mathematician or not. Shown in the classroom it should spark interest in the discovery of solutions and even in the discovery of problems.

**4 minutes color 16mm film rental \$10.00
16mm film sale \$75 videocassette sale \$110**

**Produced by
THE NATIONAL FILM BOARD OF CANADA**

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Music.....Maurice Blackburn
Mathematics.....Trevor Fletcher**

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