**Edu2000 America Inc**
PO Box 2636, Carson City, NV 89702
Ph: 775-887-1744 Fax: 775-887-1479

http://www.education2000.com
e-mail: info@education2000.com



**Geometry Journey Video Series**

**Program #1**

# Geometry World

**Satellite Broadcasting**
**VHS**
**and Internet/Intranet Streaming**

Topic Page

## Program Description

This video is a general introduction to all aspects of geometry, including plane geometry, solid geometry and non-Euclidean geometry. By showing the interesting and exciting aspects of geometry that are all around us, this video will help first-time geometry students develop an appreciation for the ever-present beauty of geometry and wonders of geometric forms. The goal is to stimulate the students to pursue the subject further.

This program is the #1 episode in the fifteen 15-minute Geometry Journey Series.

## Synopsis

This program will cover the following topics:

1. Geometry around Us
2. Building Blocks of Geometry
3. Introduction to Plane Geometry
4. Introduction to Solid Geometry
5. Introduction to Non-Euclidean Geometry

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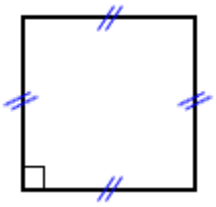
**Student Worksheet**
Name _____

Fill in the blanks.

1) The motion of a point produces _____.

2) The motion of a line produces _____.

Please name each of the following geometric shapes.



1. _____

2. _____

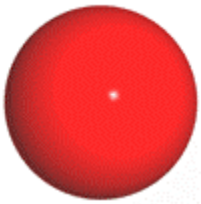
3. _____

4. _____

5. _____

6. _____

7. _____



8. _____

**Question:** What is fractal geometry?

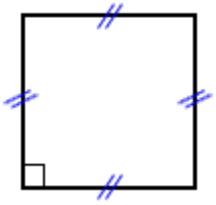
**Answers to the Student Worksheet**

Fill in the blanks.

1) The motion of a point produces a line.

2) The motion of a line produces a plane.

Please name each of the following geometric shapes.



1. Square

2. Rectangle

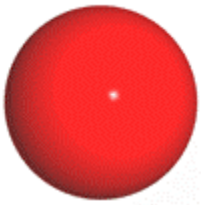
3. Triangle

4. Circle

5. Cube

6. Cylinder

7. Cone



8. Sphere

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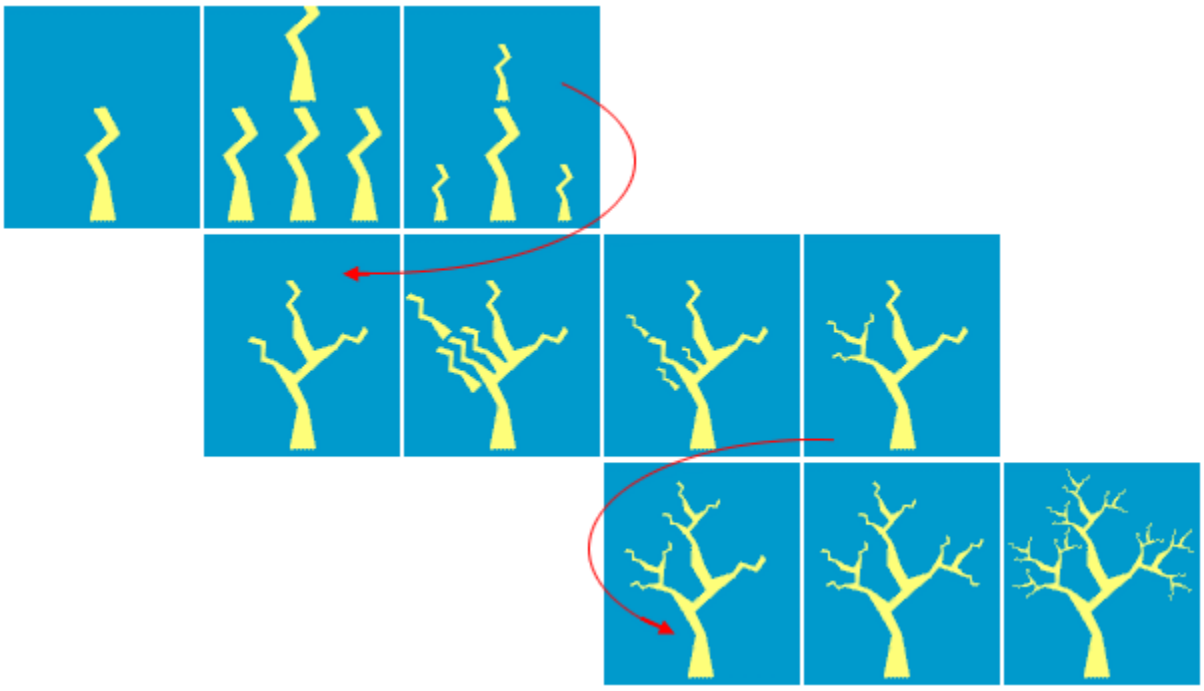
**Hints to Discussion Questions**

**Question:** What is fractal geometry?

**Hint:** Fractal geometry is a branch of non-Euclidean geometry that we can use to describe many everyday objects such as clouds, coastlines, mountain ranges, rivers and trees. A fractal is a geometric shape that consists of an identical motif repeating itself on an ever-reduced scale. The following series of pictures have shown how a motif can be repeated to generate a tree.



**- End -**