

3D Geometry

Activity 4 - Make Your Own Soccer Ball



Shapes in three dimensions can be found anywhere, even on the soccer field. Did you know that a soccer ball is designed from pentagons and hexagons? The black leather

pentagon pieces are separated from one another by white hexagons.

Because a soccer ball is three-dimensional, it too can be flattened to see the two-dimensional figures from which it is designed. In this example, the soccer ball you will create is from a dodecahedron – a 12-sided figure.

In this activity, try assembling the soccer ball from the dodecahedron figure. On the next page is the figure that you will need to complete the activity. You will also need scissors and tape.

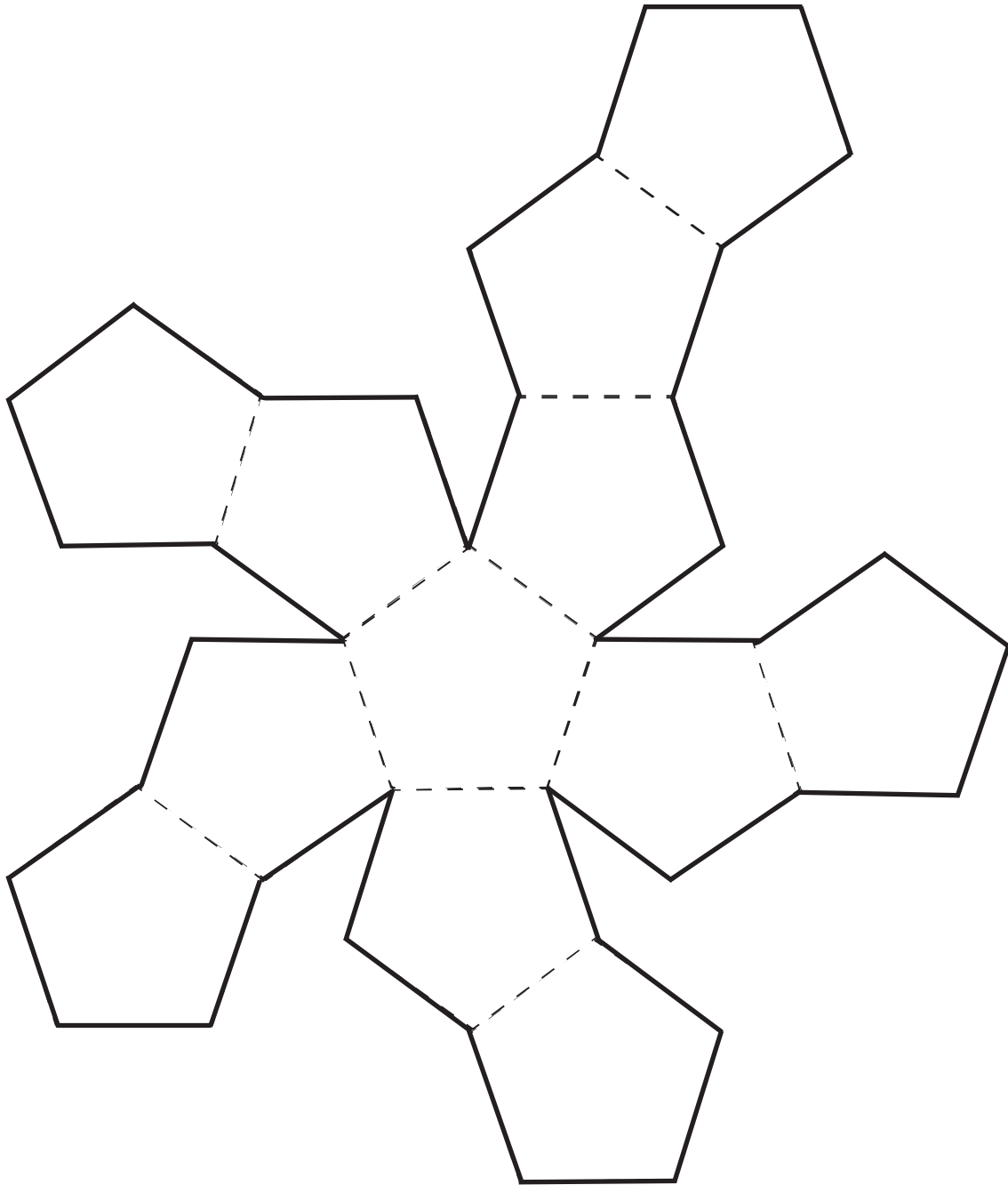
Activity Instructions:

1. Copy the figure on the following page.
2. Cut out along the solid lines (it should be one piece).
3. Fold along the dotted lines.
4. Be sure to tape along the edges as you progress.

Can you believe THIS is math?

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Activity 4 - Make Your Own Soccer Ball - *continued*



Can you believe **THIS** is math?