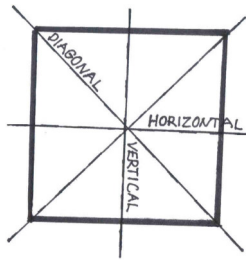


Klutzy Art Meets Symmetry

Symmetry is everywhere! It's in nature - the leaves of trees or the shells on the beach have it. It can be found down a plug hole in the bath or a rug on a wooden floor. Famous buildings have symmetry like the Taj Mahal in India. So, what is it? Shapes, buildings or objects have symmetry when the opposite sides of a dividing line are exactly the same. One half is the mirror image of the other half.



Lines of symmetry can be vertical, horizontal or diagonal and there can be more than one.



Here's your excuse to be klutzy! You're going to need:-

A3 paper

Paints

Water

Perhaps brushes

A desire to get messy

This is not a new idea, but it may be one you have not come across before.

1. Fold your paper in half and place it on a desk or table.
2. Dab paint with a brush on ONE side of the paper in a random pattern in the best klutzy way you know how. (Or use your body parts!)
3. Fold the paper, making sure both sides are pressed together.
4. Open it and the painting should be exactly the same on both sides of the fold line in the middle. Symmetry!



Which letters of the book title, “Klutzymatosis” have one half exactly the same as the other? A line of symmetry is drawn for you on one of the letters to get you started. Draw lines of symmetry where appropriate.

K L U T Z Y
M A T O S I S

The three main characters of “Klutzymatosis” are Ben, Leela and Martin.

1. When you write their names in upper case (or capitals) - **BEN, LEELA, MARTIN** – how many letters have symmetry?
2. When you write their names in lower case – **ben, leela, martin** – how many letters have symmetry?
3. Write your name in upper case and lower case letters and discover lines of symmetry.



Klutzy Art Meets Symmetry

Draw the other half of the face of one of our characters, Ben.
Remember, both sides have to be exactly the same so the picture can be *symmetrical*.



Now it's your turn. Use the rest of this sheet to draw any picture. It could be a shape, a group of letters, a butterfly with a pattern or a building. Anything! However, you're only drawing half the picture. Get someone else to complete the rest. Remember, both sides have to be the same to create a *symmetrical* drawing.

