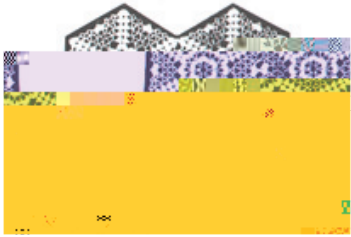


# Tessellations



## Ac i i 1 - Making Tessellations

Repeating the same shape over and over in every direction.

**T**essellations are a super cool and interesting mathematical phenomenon. The math behind tessellations can sometimes get fairly complex but the basics are

**E**asy for everyone to understand. The beauty of tessellations can be appreciated by everyone! Tessellations are geometrical patterns made up of one or more repeating

**S**hapes, which completely cover the

**S**urface and fit together without any gaps or overlaps. Any given pattern in a tessellation can be continued infinitely in

**E**very direction. Tessellation can also be described by the words “tiling” or “mosaic”. Tessellations were discovered and used in art thousands of years ago by many different ancient cultures

**L**ong before they were studied in mathematics. Geometric mosaics have been found in decorative designs of the Sumerians, who

**L**ived around 4000 B.C. Some of the most extensive tessellation works are found in Islamic designs. These designs display an

**A**

**O**riginality of tessellations does not have any limits. Imagination and a little bit of mathematical knowledge are all that one

**N**eeds to begin creating tessellations!

---



---

# Can you believe THIS is math?

# Tessellations

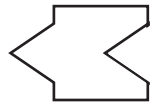
## Ac i i 1 - Making Tessellations - *continued*

**To make your tessellation you will need:** paper, thick cardboard, a compass, tape, scissors, a pencil and coloured markers.

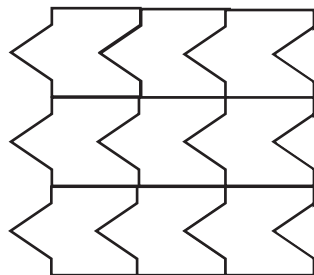
1. Cut a square with sides of five centimeters.
2. Cut out part of the square and move to the opposite side. Tape in position.



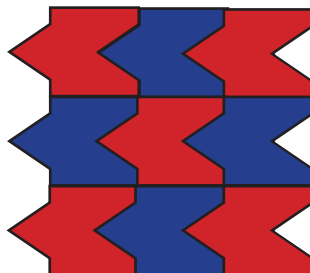
3. Take the new tile and place it in the middle of the picture. Draw a light outline with your pencil.



4. Repeat the previous step to make a design in the same way this was made.



5. Outline the design.




---

Can you believe THIS is math?