

Definitions :

1: having two halves, parts or sides that are the same in size and shape (*art, design, technology, biology, chemistry, physics, mathematics, geography, P.E , English, music*)

symmetrical

Used in a sentence:

- *The wallpaper had a symmetrical pattern.*
- *People's bodies are never quite symmetrical.*
- *The results showed highly symmetrical crystals.*
- *The composition had symmetrical rhythms.*

Etymology and historical meaning of the term **symmetrical** :

from Greek *symmetria* "agreement in dimensions, due proportion, arrangement," from *symmetros* "having a common measure, even, proportionate."



Questions:

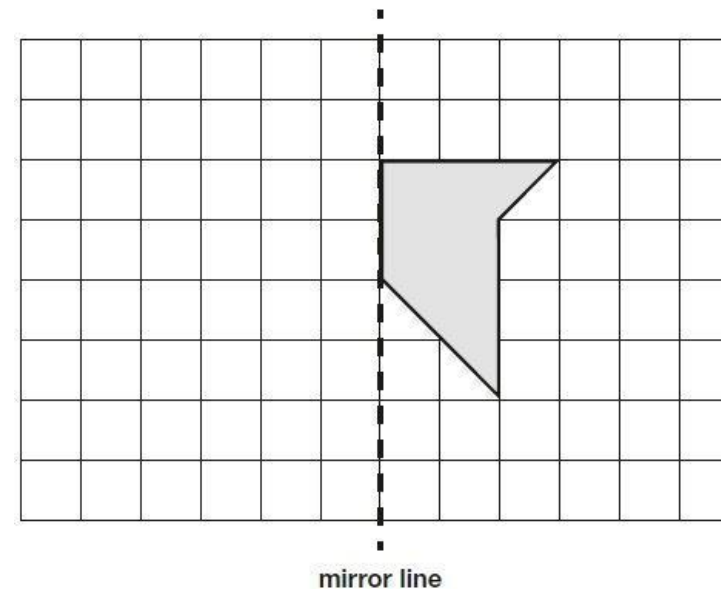
- How does this link with the theme of the week:
'visible consistencies'
- Can you think of any synonyms for the word **symmetrical**?
- Could you use words of the same family (verbs, nouns) in sentences?

Symmetry in English and mathematics:

REFUGEES

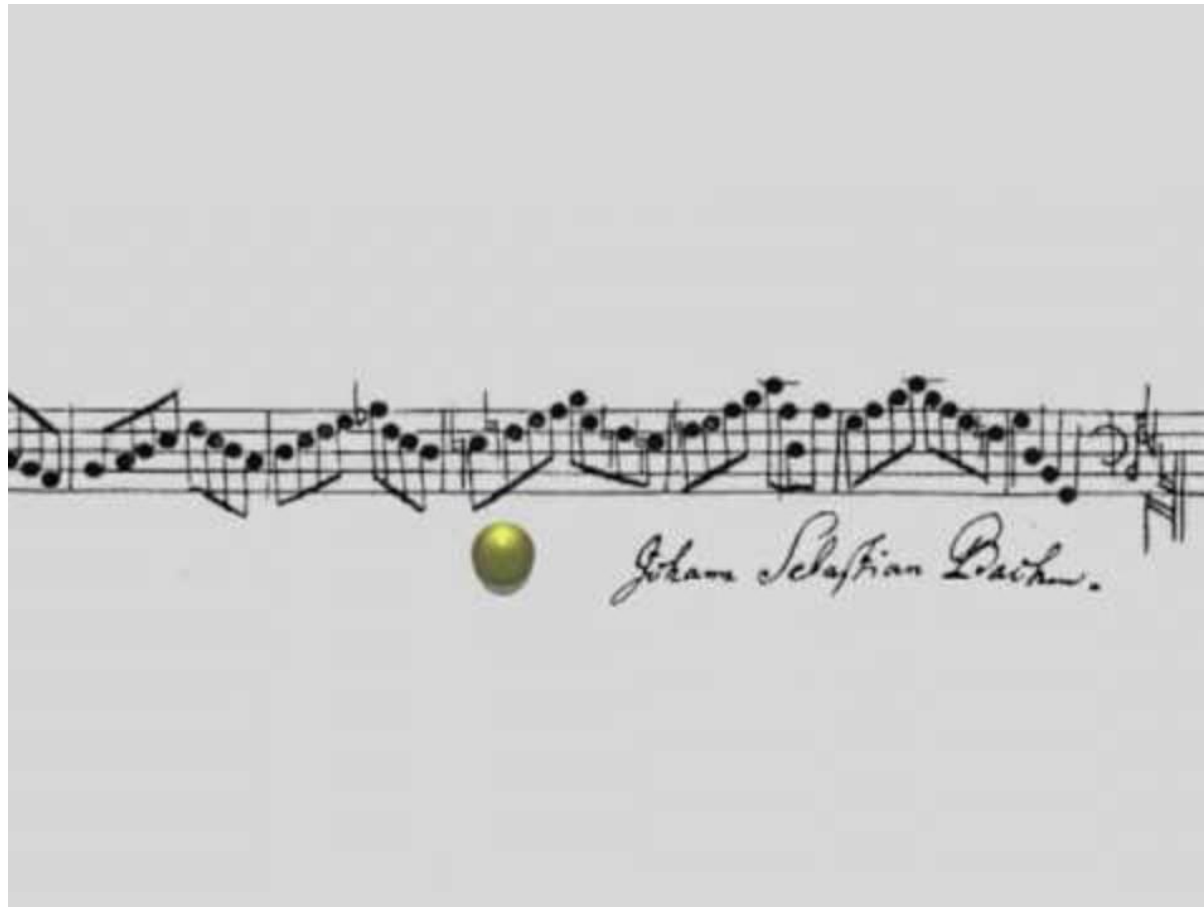
They have no need of our help
So do not tell me
These haggard faces could belong to you or me
Should life have dealt a different hand
We need to see them for who they really are
Chancers and scroungers
Layabouts and loungers
With bombs up their sleeves
Cut-throats and thieves
They are not
Welcome here
We should make them
Go back to where they came from
They cannot
Share our food
Share our homes
Share our countries
Instead let us
Build a wall to keep them out
It is not okay to say
These are people just like us
A place should only belong to those who are born there
Do not be so stupid to think that
The world can be looked at another way

- Read the poem from top to bottom.
- Then read the poem from bottom to top.
- How does the meaning change?



Can you draw the shape's reflection on the other side of the 'mirror line', or line of symmetry?

Symmetrical music



Bach's 'Crab Canon':

A crab canon is an arrangement of two musical lines that are complementary and backward. If the two lines were placed next to each other, the lines would form something conceptually similar to a **palindrome**. The name 'crab' refers to the fact that crabs are known to walk backward.

Palindrome examples :

Kayak, racecar, noon

Can you think of any other "symmetrical words?"