

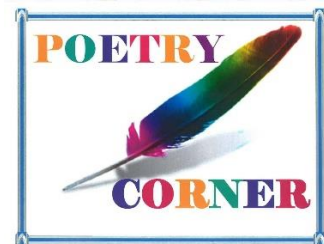
Real Life Applications of Patterns

- Patterns arise in lots of different places in everyday life.
- Being able to recognise patterns and analyse them can be very useful in solving problems and in making mathematical connections.

1) Patterns appear regularly in music. When your foot is tapping to the beat of a song, you are identifying and repeating a pattern. The chorus of a song is a repeating pattern of notes. Skipping and dancing also involve repeating patterns. In order to be a good musician, singer or dancer you need to have an excellent ear for, and ability to reproduce, patterns!



2) Rhyme and rhythm also appear in literature. Certain poems follow a particular rhyming pattern. You may have come across a particular rhythm in some poetry and Shakespearean plays where lines are broken into syllables that are in groups of five. This is called Iambic Pentameter. Another familiar rhyming scheme used in poetry is "ABAB", where every second line rhymes.



3) Patterns occur in the weather regularly. These patterns can be used to predict what future weather might be like. If the temperature was between 8 and 10 degrees on a particular day for the last 10 years, then it is likely that the temperature would be the same again this year.



4) Patterns provide a very useful understanding of the natural world. Both plants and animals have certain habits that exist in patterns and recognising these behavioural patterns allows us to interact with them and understand them better.



5) The "Google Translate" program looks for patterns in hundreds of millions of documents to help decide on the best translation for a particular phrase or word. It currently supports 90 different foreign languages. You can try it out here: <https://translate.google.ie/>



6) Patterns appear in cooking also. If you like a particular dish in a restaurant then you would like the dish to be consistent every time you order it. If the chef follows the same pattern in its preparation you will probably leave a happy customer!!

