

# GEOMETRY

BY EUREKA SECONDARY, IRELAND.

## WHO ARE WE?





## INTRODUCTION

#### HOW DO WE RECOGNISE SIMILAR TRIANGLES?



**Right angle triangle** 

**Isosceles triangle** 



**Equilateral triangle** 

### **SO.... WHAT ARE SIMILAR TRIANGLES?**

IN SIMILAR OR EQUIANGUALR TRIANGLES, ALL THREE ANGLES IN ONE TRIANGLE HAVE THE SAME MEASURE AS THE CORRESPONDING THREE ANGLES IN THE OTHER TRIANGLE.



#### EXAMPLE OF A SIMILAR TRIANGLE

LOOK AT THE CIRCLED DIGITS AND TRY AND SEE IF YOU NOTICE ANY CONNECTION BETWEEN THEM?



12









## THE RATIO OF THE SIDES



	AC	BC		DE	DF	EF
DE	DF	EF	or	AB	AC	BC







#### **ANGLES IN SIMILAR TRIANGLES**



vertically opposite



## **REAL LIFE EXAMPLES**

## KAHOOT

Kahoot!

## SUM UP

#### WHAT ARE SIMILAR TRIANGLES?

#### HOW DO WE RECOGNISE SIMILAR TRIANGLES?