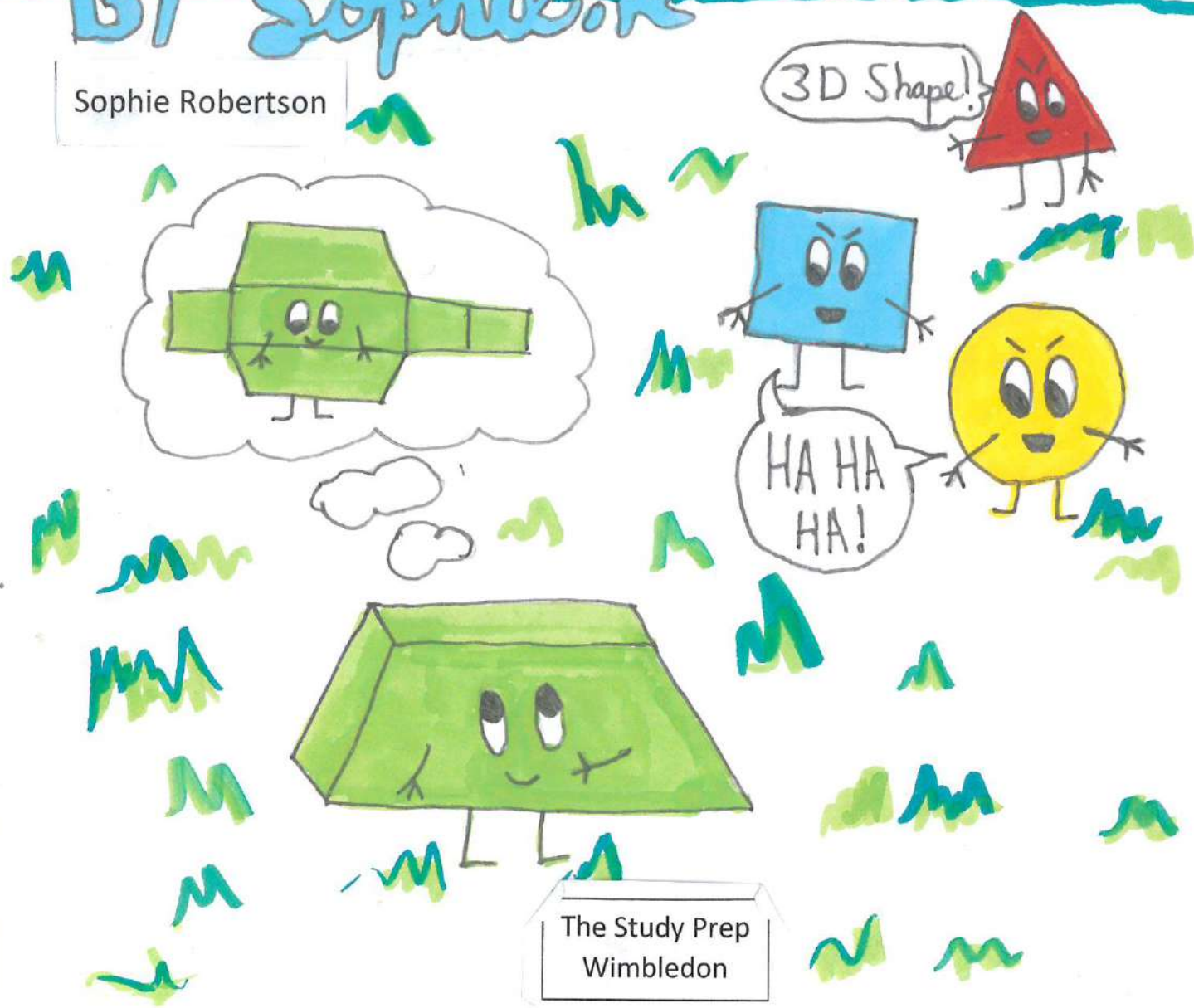


FRIENDSHIP GEOMETRY

BY Sophie.R

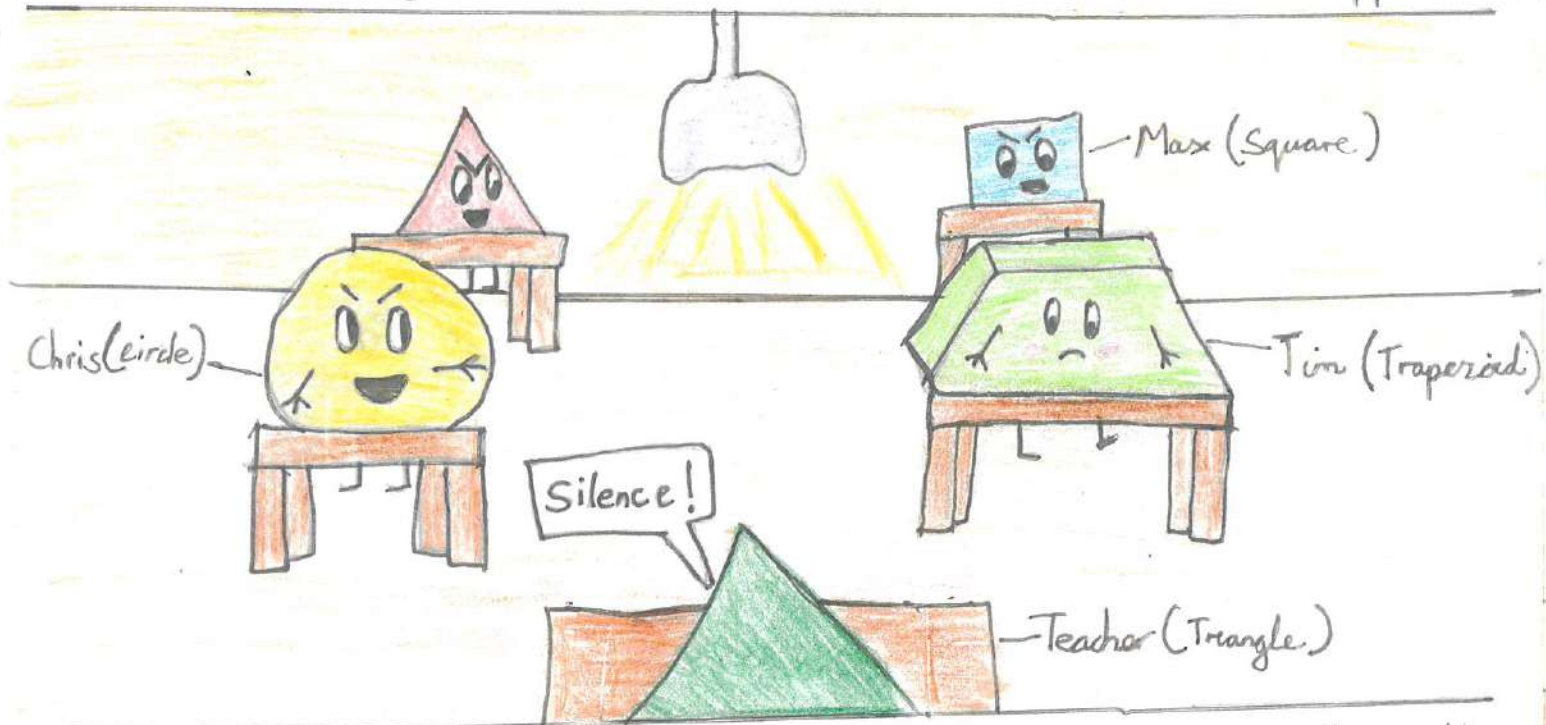
Sophie Robertson



The Study Prep
Wimbledon

Chapter 1

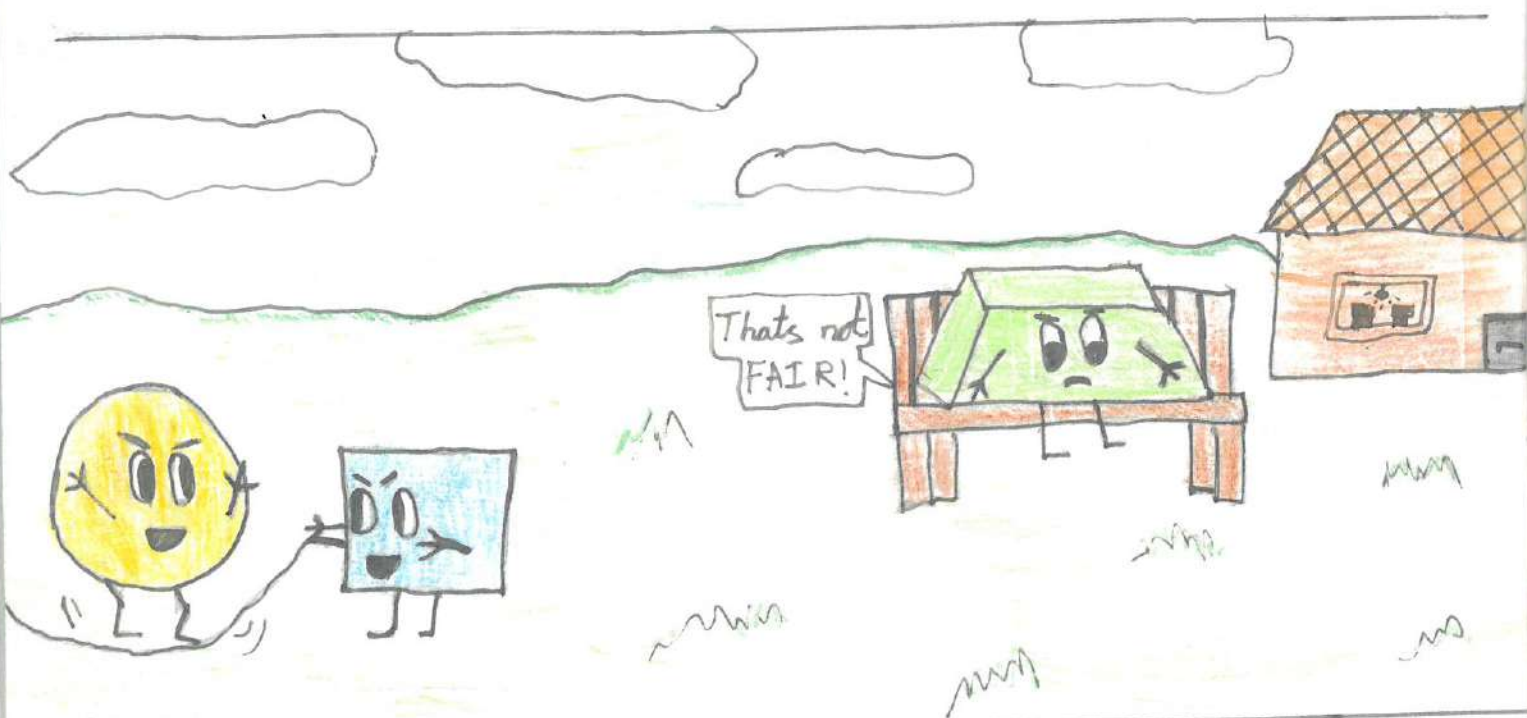
Ding, Ding, Ding! The bell rings for the start of the day and Tim has entered the school gates at his new school! Feeling proud, he walks to his new form room but only to realise that there aren't any other shapes like him. You see, Tim is a 3D shape but at his new 2D school, it looks like there are just 2D shapes. Tim is a bit concerned about this. At his old school there were only 3D shapes but here it is the exact opposite.



'Oh' sighed Tim as he sat down at his seat. All of the other 2D shapes were giggling and laughing but never let him join in. This made Tim very sad and he felt left out.

Chapter 1

At break time, Tim thought that it would be a good idea to try and make some new friends. This didn't work out. All of the 2D shapes seemed to already have friends and those who didn't, weren't wanting to be friends with him. Feeling sad and rejected, Tim went to go and sit on the friendship bench. He knew exactly why no one wanted to play with him and he was very angry. It was because he was 3D and they were 2D! "That's not fair!" shouted Tim as he hunched into the bench.

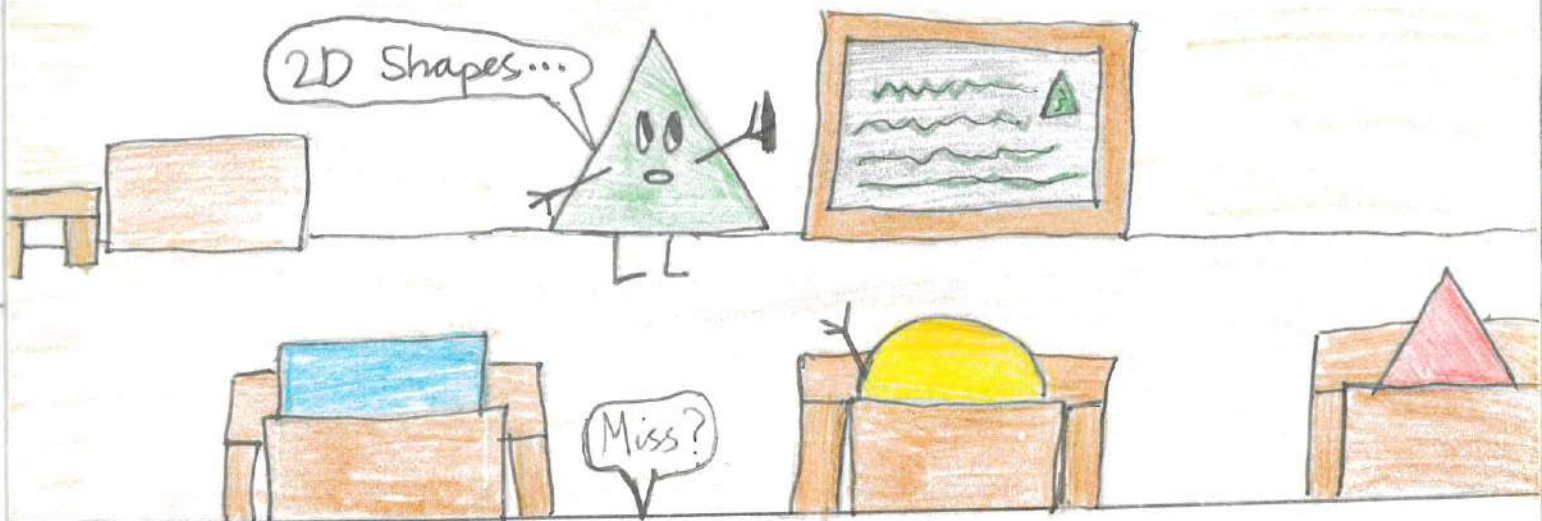


Suddenly, Tim had an AMAZING idea. He thought, if he is the odd one out because he was 3D, then to fit in he had to change into a 2D shape. The only problem he had now was... HOW?

Ding, Ding, Ding! The bell rang to call the children to line up and soon, Tim was inside once again.

Chapter 2

Back in the classroom, Miss Triangle was teaching the class all about the properties of a 2D shape. "A 2D shape like myself" said Miss Triangle "Has the following properties; we are completely flat and only have two dimensions...length and width. As you know, some of us are circles, hexagons, octagons and quadrilaterals. We are classed as polygons or non-polygons". Tim then realises that he doesn't know what polygons are. "Miss, what are polygons?" Miss Triangle began. "Well Tim, a polygon is a closed 2D shape that only has straight sides. But some of us are non-polygons as they don't have all straight sides. Such as Chris Circle and Sammy Semi-circle".

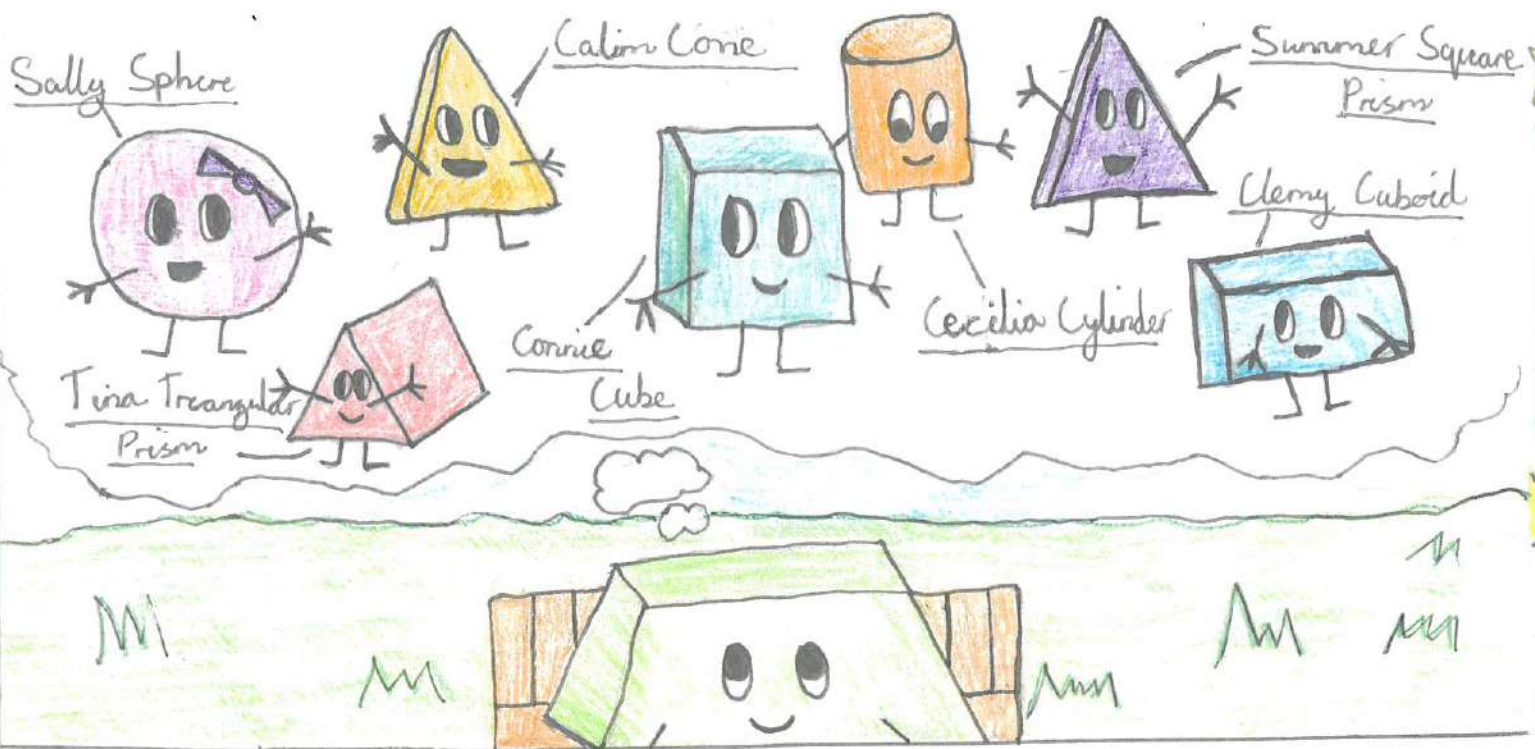


Miss Triangle carried on, "The properties of 2D shapes include; sides, vertices, angles and lines of symmetry. Some are regular polygons which means our sides are equal lengths and all of our interior angles are the same in size. Our irregular polygon friends have different length sides and their interior angles may not all be the same size, such as Sally Scalene Triangle".

Ding, Ding, Ding! The bell rings again and it's time for lunch.

Chapter 2

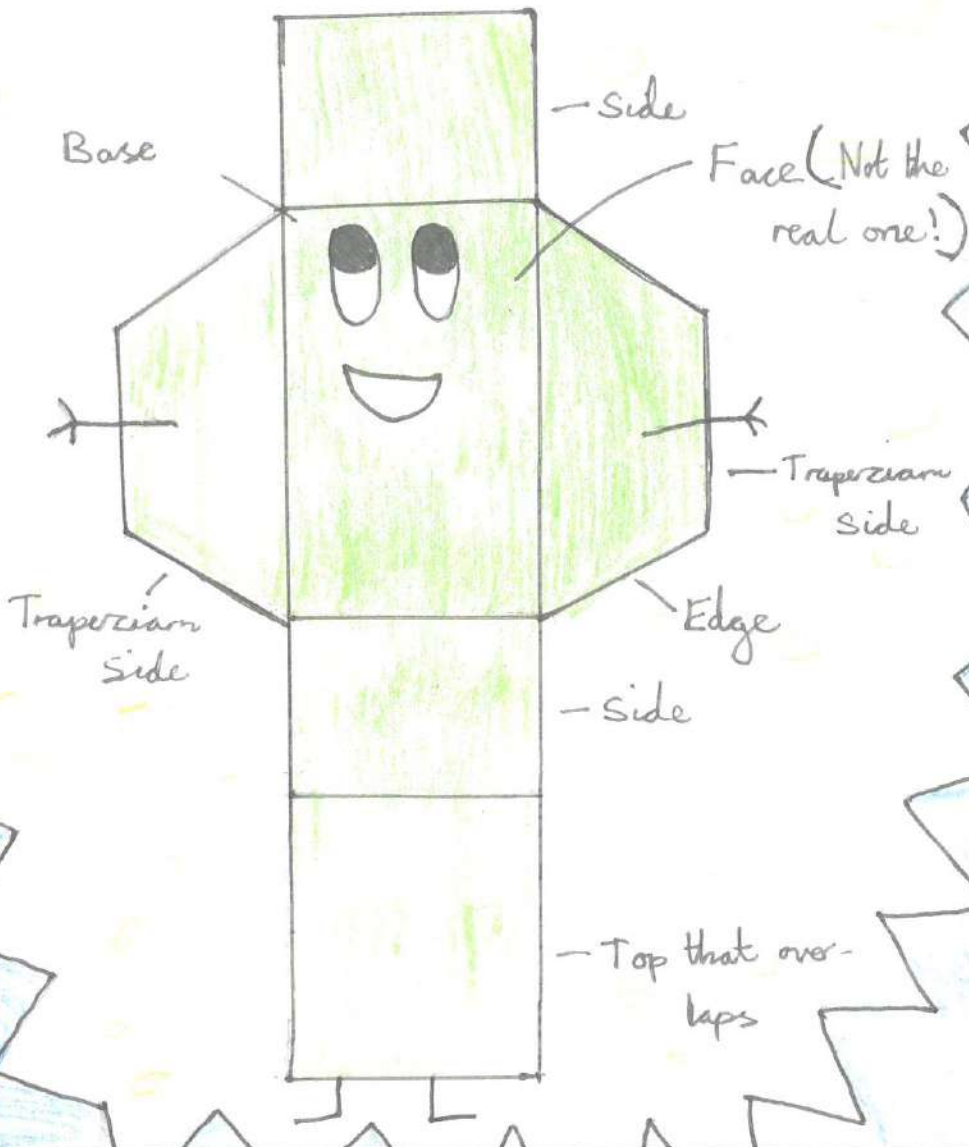
During lunch time, Tim sat on the friendship bench pondering the 2D shape lesson he just had with Miss Triangle. It occurred to him that he had the same properties as his classmates as well as his own extra ones. Not only did he have sides, vertices, angles and lines of symmetry, but he had depth, faces and edges. Tim began to remember his 3D friends from his old school; Sally Sphere (3D circle), Calin Cone (3D triangle with a circular base), Connie Cube (3D square), Summer Square Pyramid (3D triangle with a square base), Clemmy Cuboid (3D rectangle), Cecilia Cylinder (3D shape with a circular base) and Tina Triangular Prism (3D shape with identical triangle bases).



Thinking about his 3D friends, Tim noticed that all 3D shapes are solid and have faces (flat or curved surfaces) and edges (where two faces meet). He realised there was only one thing to do next, and that was to show his classmates that on the inside, he was just like them...

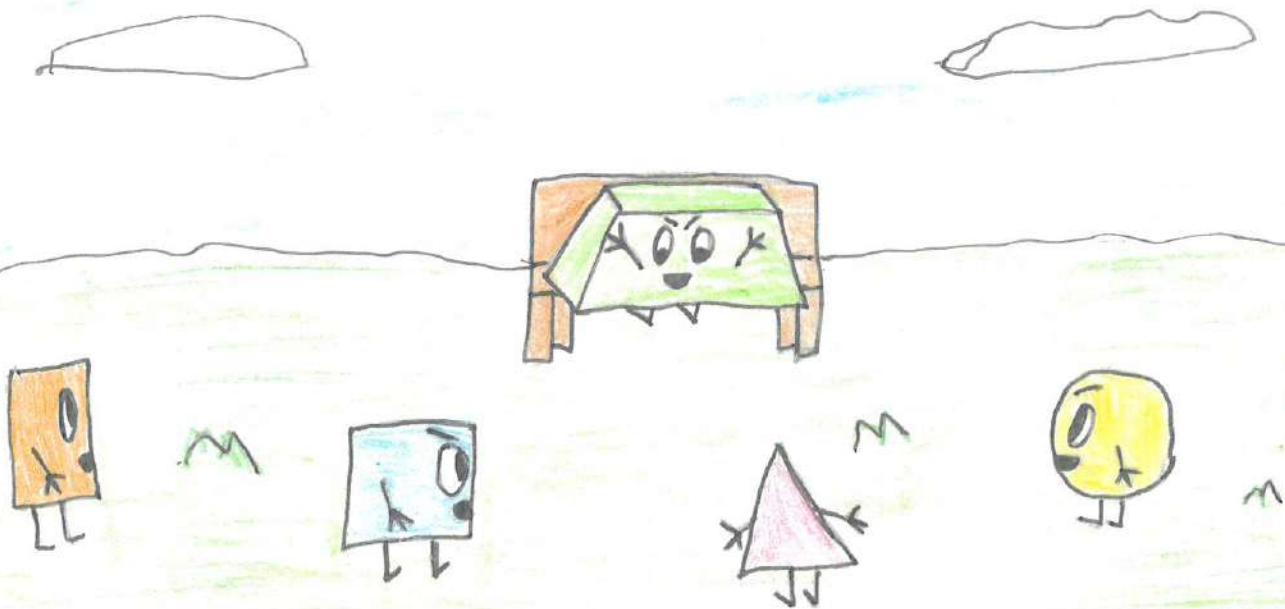
Chapter 3

TRAPEZOID NET!



Chapter 3

Dramatically, Tim leaped on to the bench and shouted out to the whole playground "Hey! Everyone! I'd like to show you something. I am actually just like all of you. See!" Just then, Tim jumped off of the bench, unclipped his edges and leaped through the air like a flying squirrel with his arms and legs stretched out and landed flat on the floor as a trapezoid net! "WOW!" shouted all of the 2D Shapes. "I've never seen anything like that before! You're 2D just like us!". It was true, Tim was no longer a 3D shape but a Trapezoid net! As Tim looked up, he was surrounded by all his 2D classmates, staring at him in awe.



Ding, Ding, Ding! The bell went once again to call the kids to line up. As Tim was walking to the line in his new form, he felt different and not in a good way. He didn't feel like himself and he didn't know why.

Chapter 3

During the next lesson, Tim tried to remain in his net gown but he just felt uncomfortable. "Wow, Tim. Look at you! Would you like to come up to the front of the class and tell us all about this" exclaimed Miss Triangle. As Tim walked up to the front of the class, he decided to use this opportunity to tell his new friends what he had learnt about himself.

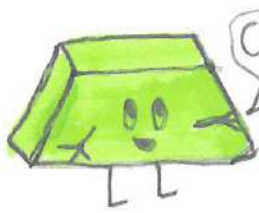
"As you can see, to all of you I look 2D but really, I like being 3D because it makes me feel more like myself and I have a lot to offer! I would like to change back into my 3D self again because it makes me feel more comfortable. When I do this, I hope you will all realise that just because I'm 3D, it doesn't mean that I'm any different to all of you. We all have similar properties on the inside even if we look different on the outside."

Chris Circle shouted out "Yeah! If we learn to accept each others properties and include everyone, we can have more friends and feel happier!"

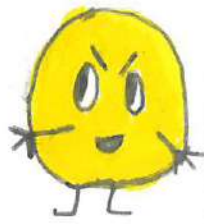
A colossal cheer spread across the room and everyone leaped to their feet. Tim had learnt a valuable lesson and I hope you have to!

The End!

Come Join The



ADVENTURE



Come and join Tim the Trapezium's grand
ADVENTURE

In Tim's new school he's finding it hard to make friends and must fix it. His new school welcomes 3D and 2D shapes but Tim is the odd one out.

Can you help Tim to get in and make friends?
Learn maths along the way and find out more about properties of shapes!

Is Tim's way of getting in a good idea?

Will He Ever Belong ANYWHERE?

