

# MATHS WITH MANIPULATIVES: ATTRIBUTE BLOCKS

Paul Swan



Figure 1

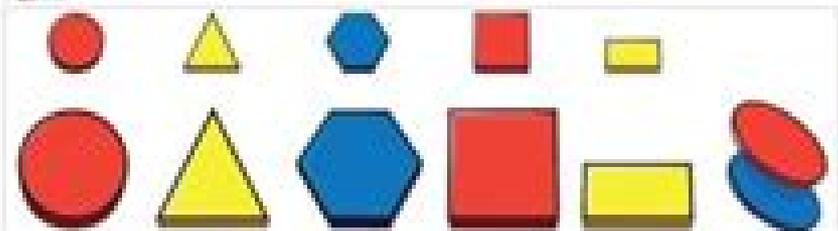


Figure 2

Attribute blocks are often combined with Pattern Blocks and Cuisinart Rods. When mixed together in a clear plastic container, Pattern Blocks come in 30 sets that consist of 12 sets of 30 pieces (which are often reserved for teachers' blocks). Pattern Blocks come in five pieces: Yellow Hexagons, Red Trapezoids, Blue and Tan Rhombuses, Green Triangles and Orange Squares (see Figure 1).

Attribute Blocks are plastic shapes that come in:

- Two flat legs or rods
- Two flat bases: flat or thin
- Three colours: red, blue or yellow
- Five shapes: triangle, square, rectangle, trapezoid and circle (see Figure 2).

The fact that there is a yellow trapezoid in the Pattern Block set and the Attribute Block set covers part of the confusion.

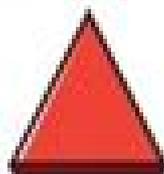
## MANAGING THE MATERIALS

The size, thickness, colour and shape represent the block's attributes, hence the name Attribute Blocks.



Figure 3

With just four words, you can describe a single block. A large block that is red would look like this:



Here an individual piece makes up a set of Attribute Blocks (1 × 2 × 1 × 1). Each block is different, so I suggest the original packaging is kept and the pieces packed away at the end of each session (see Figure 3). Also, I would buy an extra set, so you have spares available in case you are late for a lesson.

(Block numbers on page 14)

# MATHS WITH MANIPULATIVES: ATTRIBUTE BLOCKS (CONT.)

## SAMPLE ACTIVITIES

### FOR A PEEK

The blocks are placed on the table. If you don't like the name of glasses on the desk, place a white card next to the desk. It reads: 'The name follows the "long face" and makes a good background if the blocks are photographed.'

The person chooses a block and the other person asks questions to bring out their words. Consider how the block's attributes are connected to the word 'leaf'. How is the block most like most of the others in addition?

### SPIN AND FIND

Use an Attribute Spinner or another that is spun up a piece (see Figure 4).

Pick up a piece and only a note the spinner features may complete the story according to using the features of the spinner (see section on). A small Attribute Block Spinner can be found at [www.mathworksheetsland.com/attribute-block-spinner.html](http://www.mathworksheetsland.com/attribute-block-spinner.html).

### NOT SPINNING

Introduce the word set as you present this story word to mathematics. For the word set feature each word that comes up on the spinner. For example, the piece is red legs, flat block, not yellow and not a circle. The name there will be more possible answers. The piece could be small, flat, red or blue, enough space, rectangle, triangle. One space out all general words (not to be thick) and the word 'set' does not have to be used to show of each part on the spinner.

### PLAY SPERDUCKE BOOKS

This is a game for four players. The blocks are placed out on the table and mixed around.

### The talking version

Three players draw their card and the remaining player 'reads a story'. The three players work with cooperatively to find the other pieces without talking.



Figure 4

The students are allowed to move and set pieces. When they follow they find from the missing piece, they can only see five words. The first will show on you or no quality or set quality.

### Talking version

Three sets introduce the block's talking questions to check the student is with 'yes' or 'no'. Allowing students to see the spinner to help track provides visual support to enable students who get 'lost' to see on the game.

### LANGUAGE AND LOGIC

Students draw one writing card to form their diagrams. Two diagrams are named after John Venn (1840 – 1923), a mathematician and logician.

Blocks placed on the intersection of two circles show that two criteria or attributes, that is red and triangle. Making a third circle means that the intersection of all three circles means that three criteria will need to be met (see Figure 5). The link between language and logic becomes clear.

Consider how students work – how correct words represent work.



Figure 5

### SYMBOLS AND LANGUAGE

Students may use different writing systems to describe the relationship between pieces. See Figure 6.

# Guide For Attribute Blocks

**Jin-Ying Zhang**



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