

Lesson Plan: A Butterfly Investigation

Age group: Year 2

Subject area: Maths Key Stage 1

Curriculum objectives: Ma2 1a,1b,1d,1f,1g,5a,5b.

Lesson objectives:

Pupils should learn:

- To describe patterns and relationships.
- To work through a problem in a logical way

Learning Outcomes

Pupils will be able to

- Present the results in an organised way.
- Children will be able to explain what they did and describe the patterns they see.

Resources:

Copies of the Butterfly problem

3 enlarged Butterflies

Colouring pencils red, green, yellow and black

Introduction

- Show the children 3 enlarged outlines of a Butterfly with the titles green body, red body and yellow body at the top.
- Explain to the children that you have 3 colours. Red, yellow and green only.
- Emphasise the fact you already know what colour the body is going to be because it says at the top.
- On each butterfly use one colour for all of the spots and another colour for all four wings
- Each colour can only be used once on a butterfly
- Ask the children to give you some ideas and colour the part they suggest.
- Tell the children that you have a challenge for them and that there are a lot of other ways that the Butterfly can be coloured – can they find them?

Plenary

How many different ways did the children find?

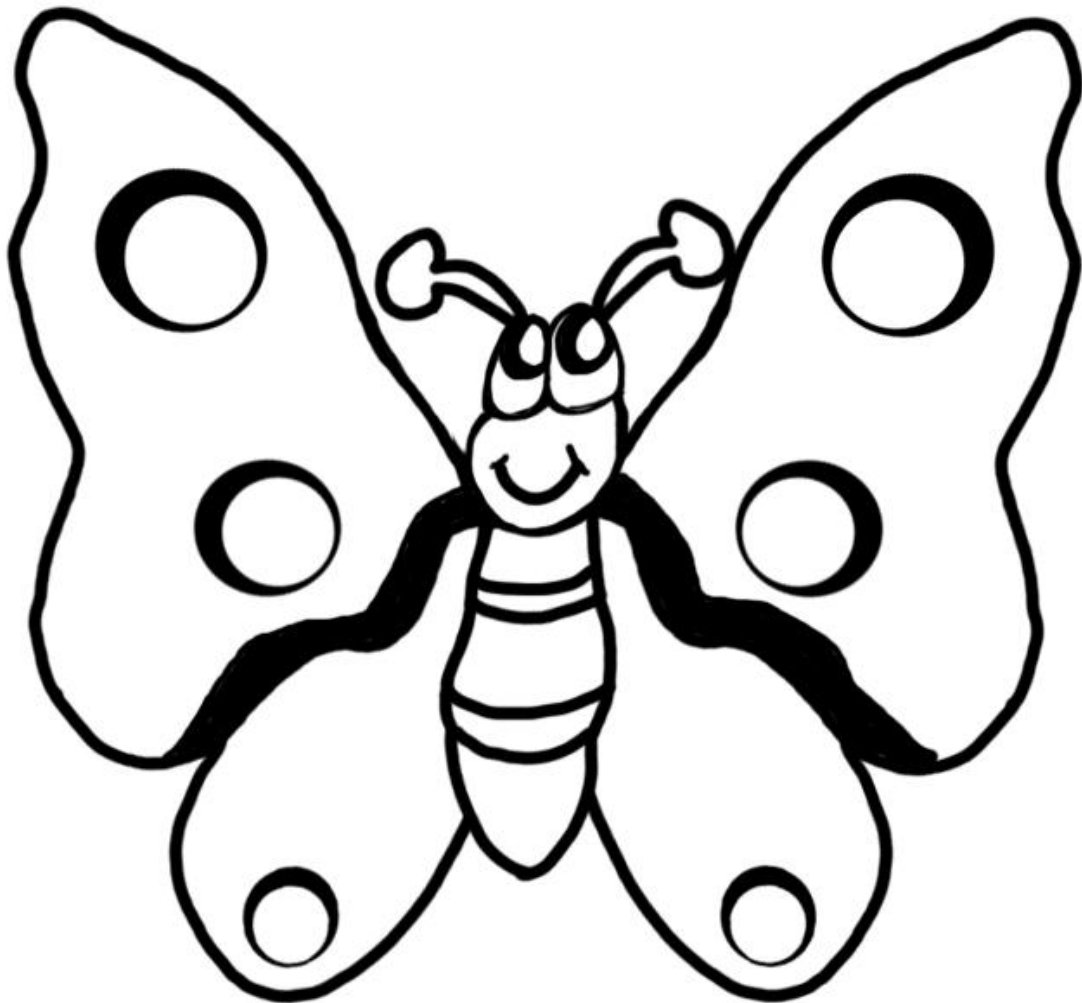
Look at some of the completed sheets, did the children see any patterns when they were doing the activity?

Did anyone have a special way that made the colouring easier?

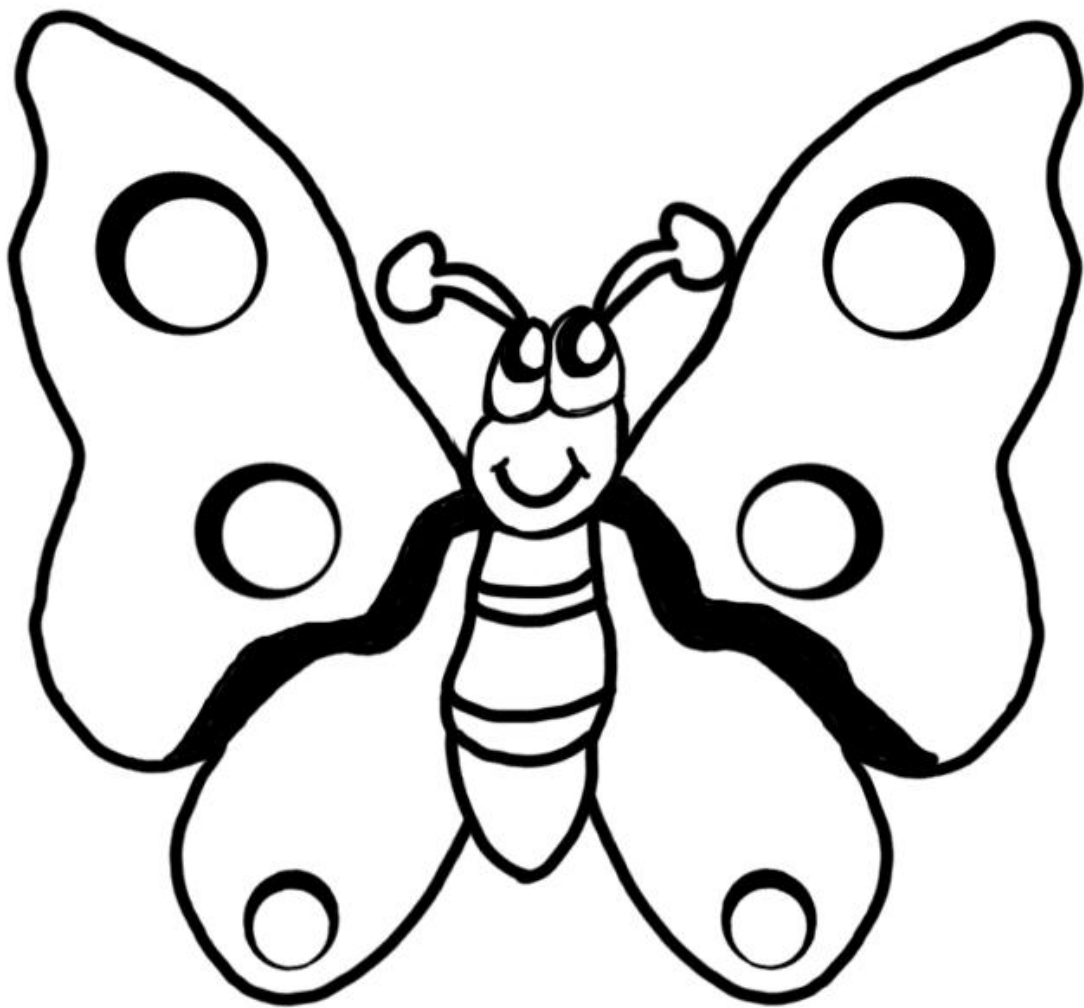
Extension:

Can the children use four colours to complete the Butterfly?

Red body



Yellow body



Green body

