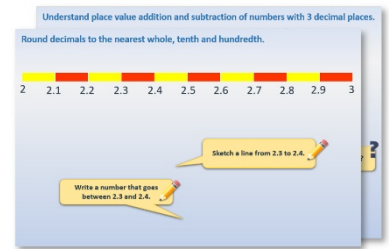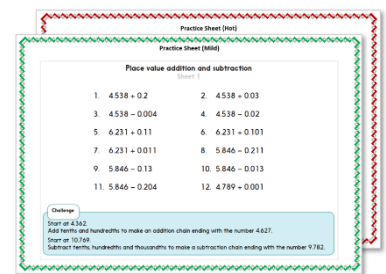# Week 6, Day 4
Symmetry (1)

Each day covers one maths topic. It should take you about 1 hour or just a little more.
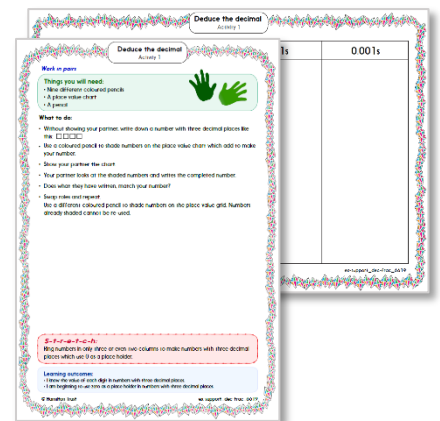
1. Start by reading through the **Learning Reminders**.
    They come from our *PowerPoint* slides.

2. Tackle the questions on the **Practice Sheet**.
    There might be a choice of either Mild (easier) or
    Hot (harder)!
    Check the answers.

3. Finding it tricky? That's OK… have a go with a
    grown-up at **A Bit Stuck?**

4. Think you've cracked it? Whizzed through the Practice Sheets?
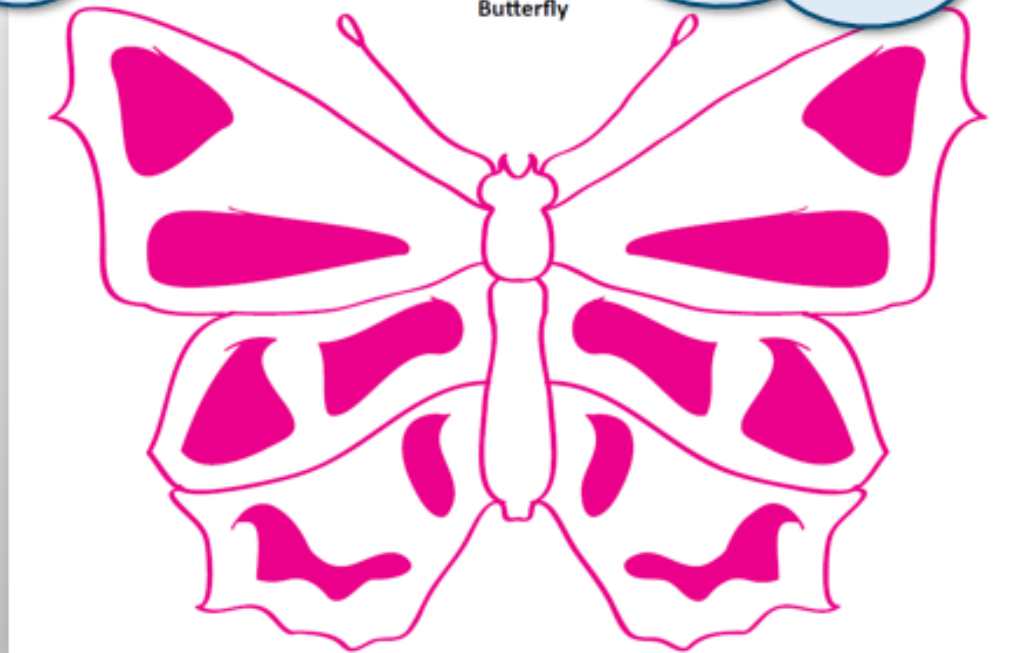   Have a go at the **Investigation**…

Learning Reminders

Learning Reminders
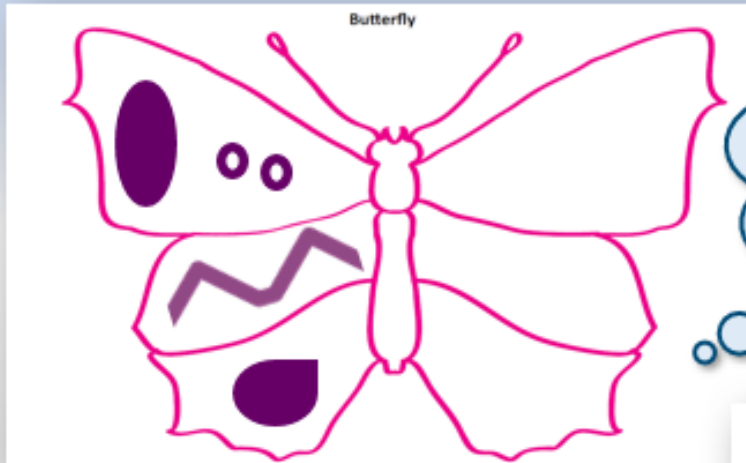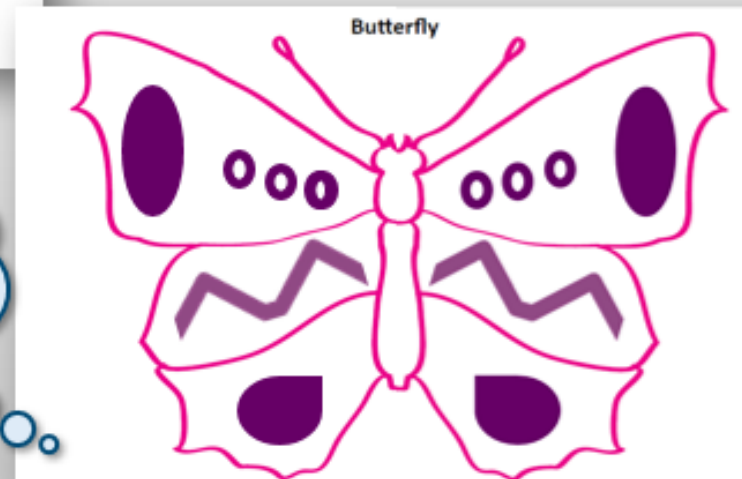
Bug symmetry

Circle the bugs that have a symmetrical pattern on their wings.
Remember symmetrical means having the <u>same</u> pattern on each side.
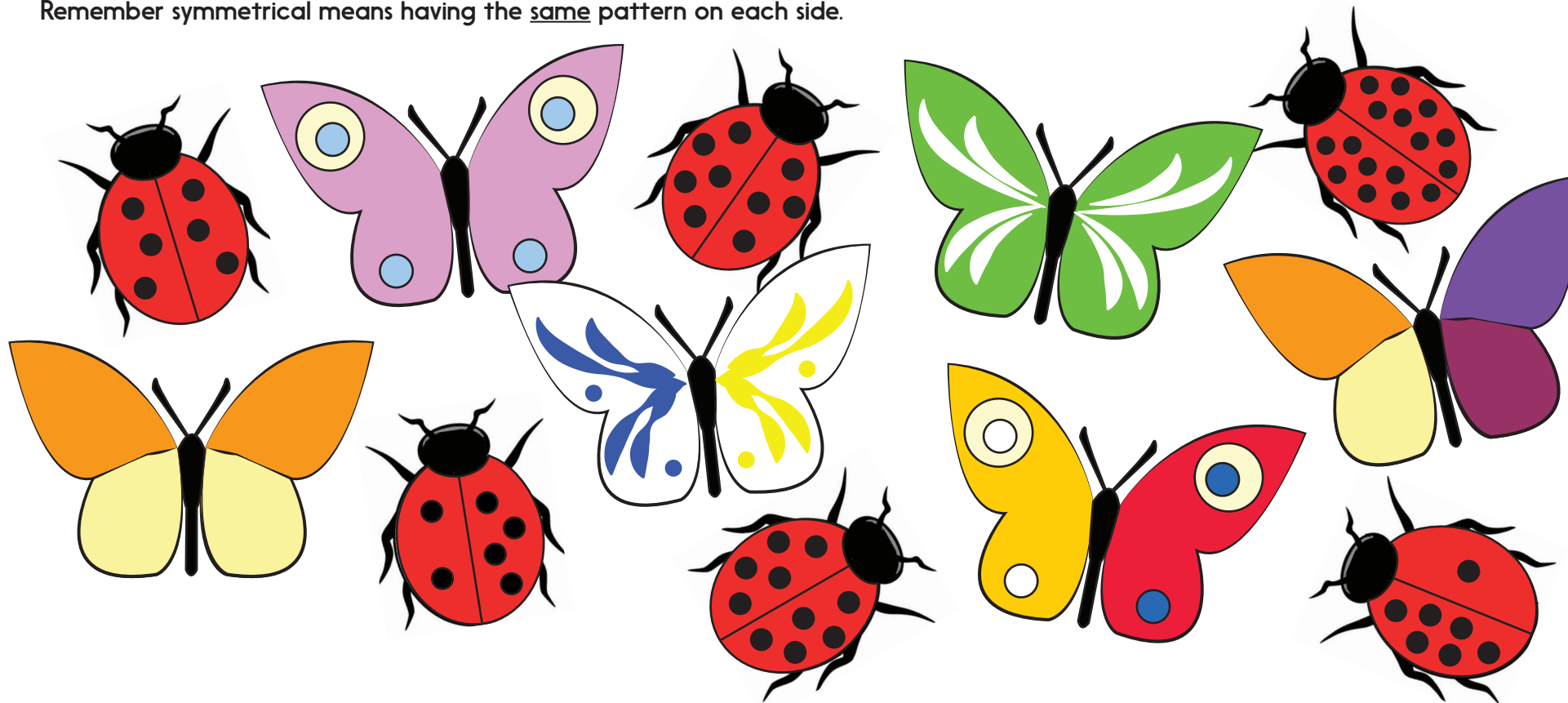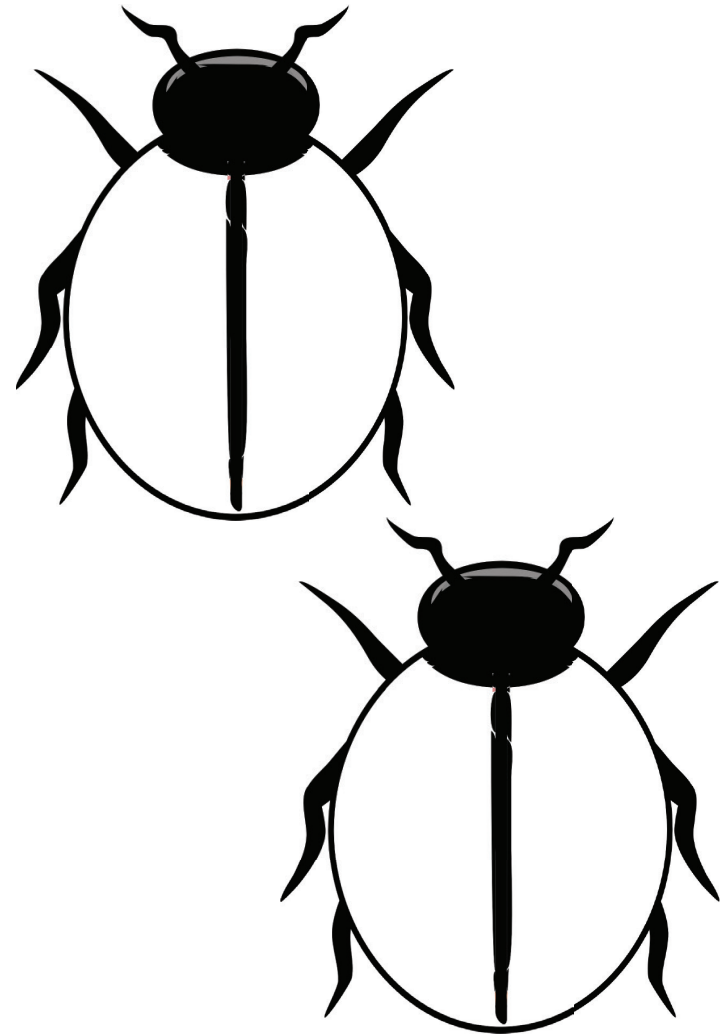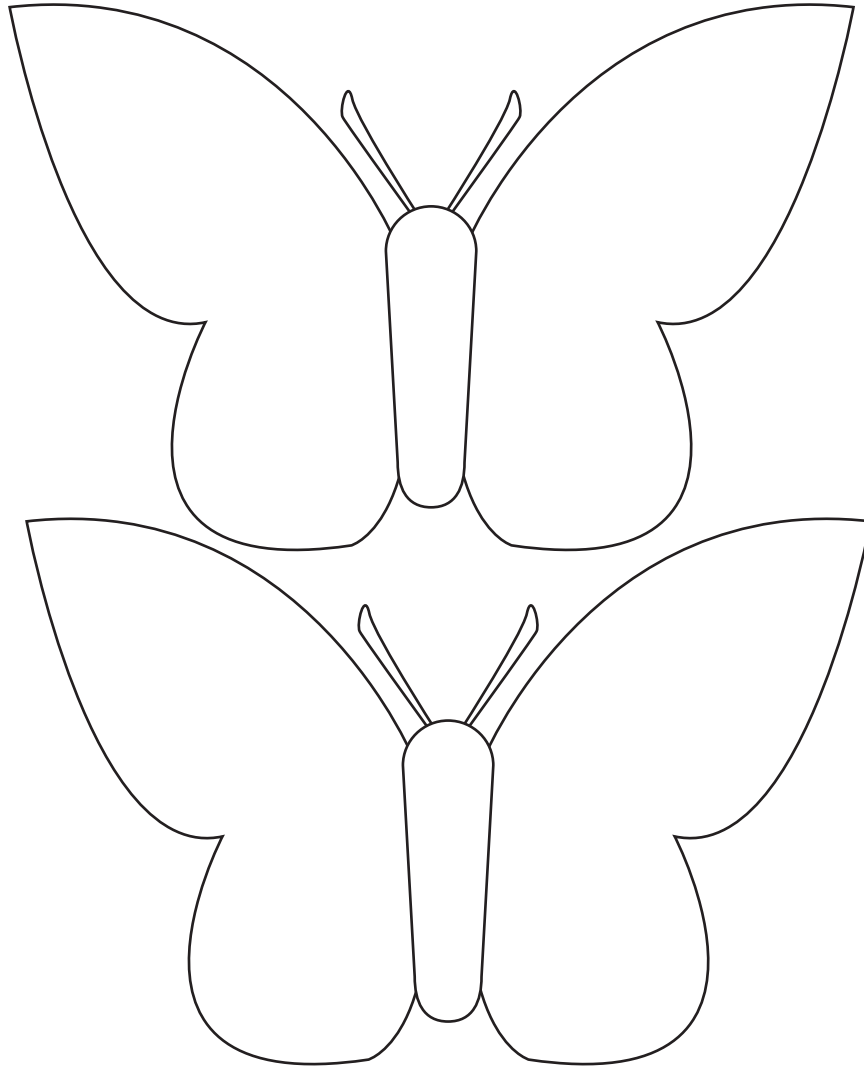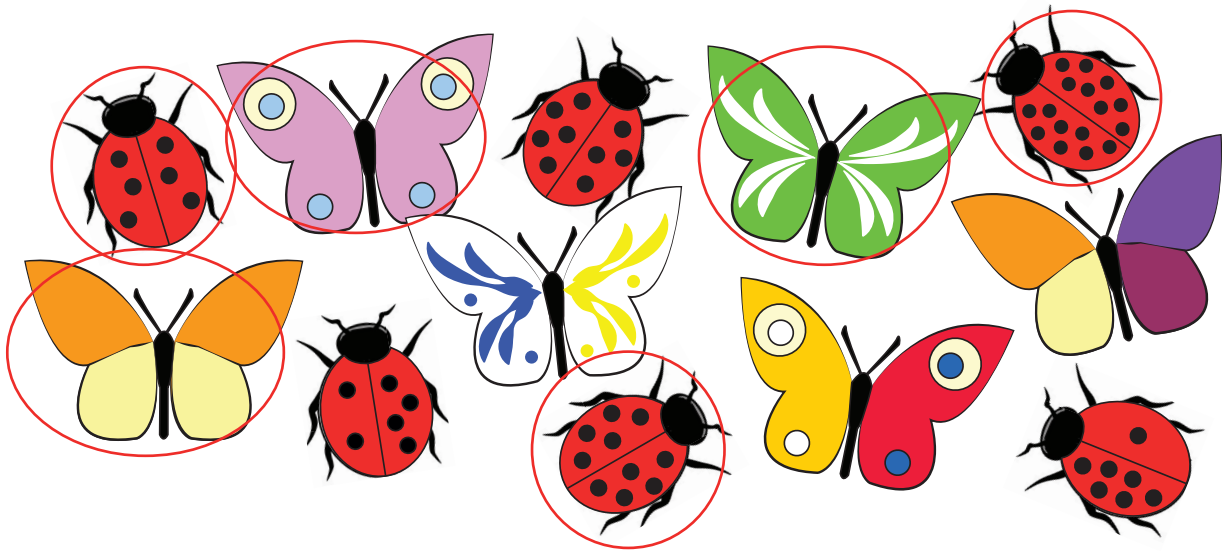
Bug symmetry

Can you draw two butterflies and two ladybirds – one of each with a symmetrical pattern and one without?

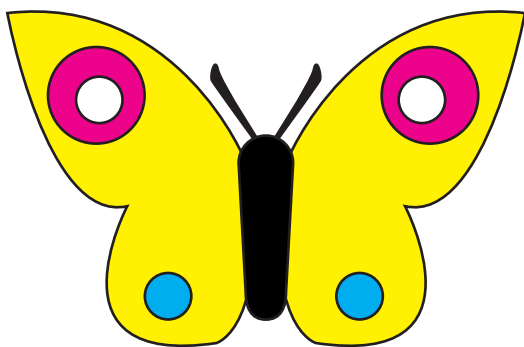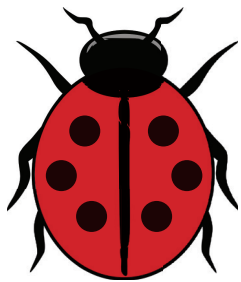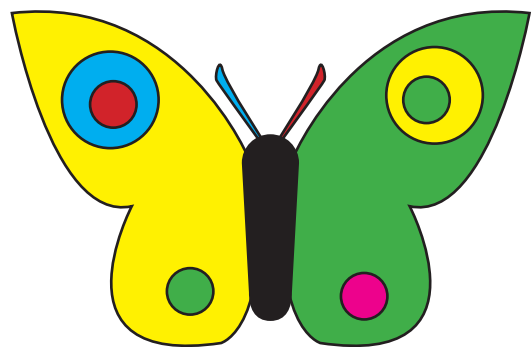# Practice Sheets Answers

Bug symmetry (mild)

Bug symmetry (hot)

e.g. Symmetrical	Not symmetrical

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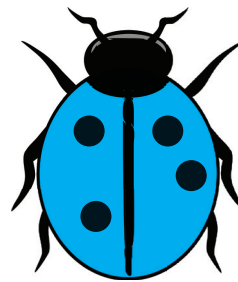
Things you will need:

• Pieces of card
• Scissors
• Pencil and ruler
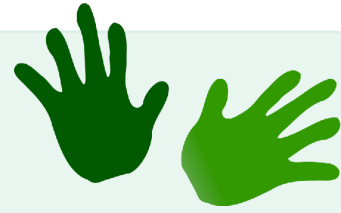
What to do:

1. Fold a piece of card in half.
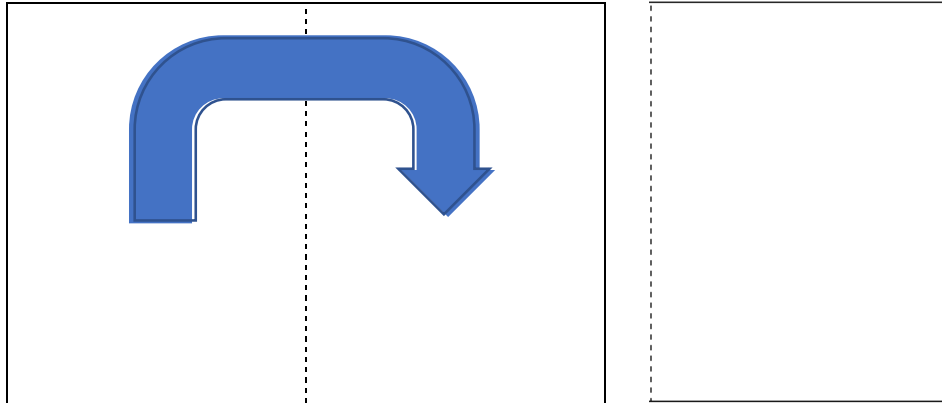
2. Draw a shape on the card, where the fold forms the left side, e.g.

3. Cut out the shape, leaving the fold. Open to make a symmetrical shape, e.g.

4. Repeat with other shapes.
5. Choose your favourite(s) to make a greetings card to send to a friend or grandparent.

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Investigation
Flip and flop

1. Spread out the shape cards.

2. Correctly identify and name each shape.

3. Each choose a shape.

4. Draw round it on one colour of card. Cut it out carefully!

5. You are both going to cut smaller versions of your shape from its sides.
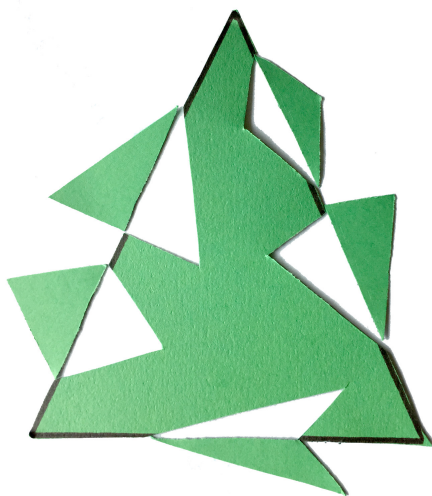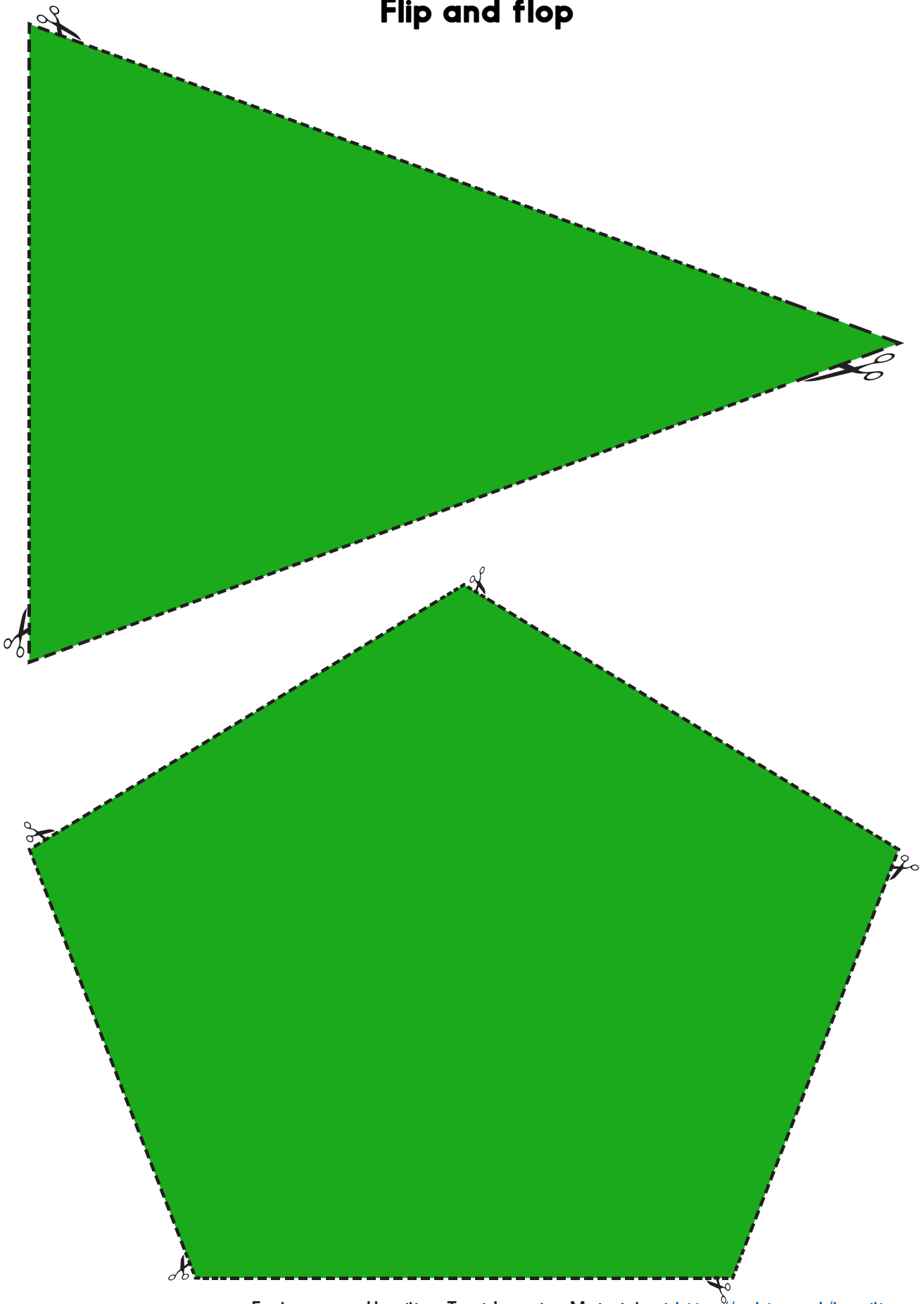   - Cut small triangles of different shapes from the triangle.
   - Cut small rectangles of different shapes from the rectangle.
   - Cut small pentagons of different shapes from the pentagon. And so on.

6. Each time you cut a shape, make sure it is DIFFERENT from the one before – the same type of shape, e.g. triangle, but a different size, orientation or shape.

7. Keep cutting *different* shapes of the same type from round the sides.

8. Now stick your original large shape, with all the bits cut out of it, on a piece of contrasting coloured card.

9. Now flip each little shape so that it is exactly symmetrical to its 'gap' in the side of your large shape. Each little shape and its 'hole' then make a symmetrical pattern.

Challenge

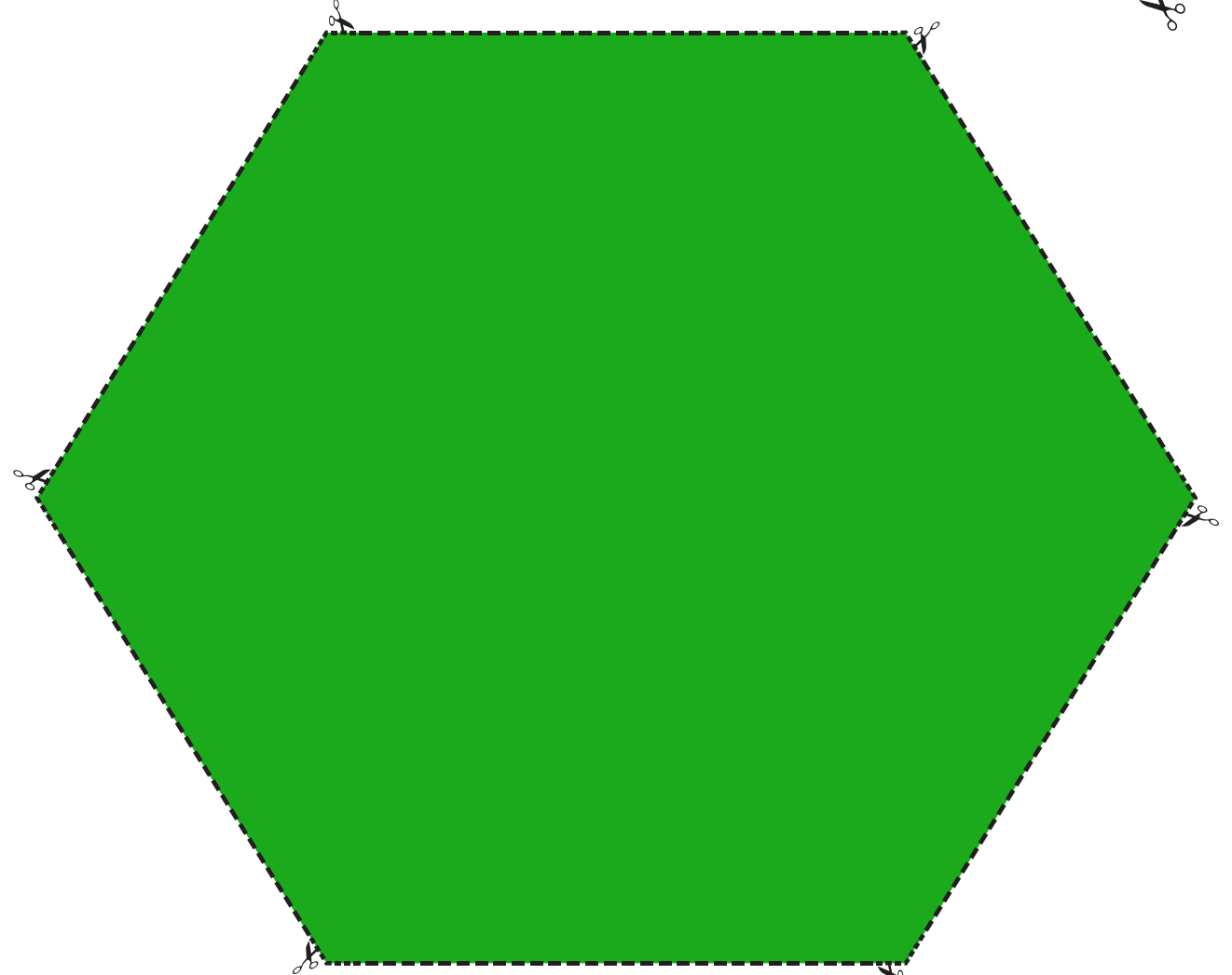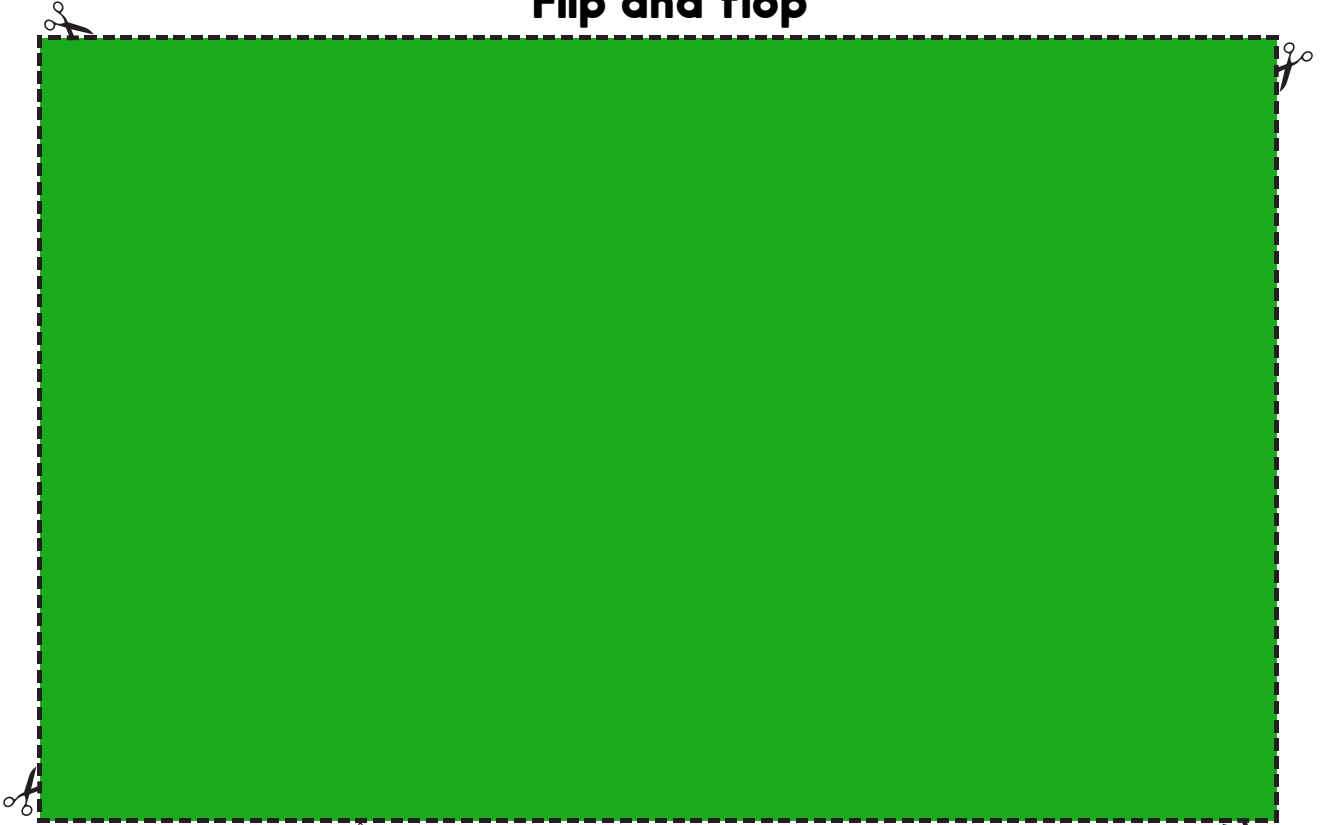Can you do this activity, starting with a semi-circle?

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Investigation
Flip and flop

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