

**Science and the Wider Curriculum - Planning and Ideas**




Dedicated to Excellence

**Week Commencing: 27.04.20**

**Year Groups: 5/6**

	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Area of Learning</b>	Subject: <b>PE</b>  LC: To create a fitness circuit.	Subject: <b>RE</b>  LC: To research different religious symbols	Subject: <b>Art</b>  LC: To create an abstract picture in the style of Helen Frankenthaler	Subject: <b>Science</b>  LC: To describe the life cycle of a butterfly	Subject: <b>Geography</b>  LC: To write a newspaper article about plastics in our rivers
<b>Activity</b>	<p><b>Resources</b> Chalk (if available) Any equipment indoor/outdoor to create obstacle course.</p> <p><b>Starter</b> Last week you put together a fitness routine. It was lovely to see the videos that had been sent In</p> <p>For your starter this week, compete your fitness routine. This should get you ready for your main activity this week. Before you start, don't forget your stretches.</p> <p><b>Task</b> This week, we thought it would be fun to put together an obstacle course. This could be indoors if you have lots of space, out in your garden or in the street (remembering social distancing of course).  You could use objects to jump over, footballs/balls to bounce etc.  You might even want to draw your course on the pavement eg, give a series of instructions for people to</p>	<p><b>Resources</b> -Internet access -Pencil for drawing -Colouring pencils/felt tips (optional)</p> <p><b>Starter</b> How many different world religions can you name? Can you write a list of them? (eg. Christianity...)</p> <p><b>Task</b> Each main world religion has a symbol associated with it. For example, Christianity has a cross and when people see it, they know that the symbol is associated with Christianity. Choose at least five other main world religions and draw the symbol associated with them. Underneath each drawing, write what the symbol is called and why the religion has that symbol.</p>	<p><b>Resources</b> -Big sheet of paper (optional) -Paints/any sort of colouring equipment</p> <p><b>Starter:</b> Firstly, do you know what an <i>abstract</i> painting is? <b>Abstract art</b> is NOT an accurate drawing of something real. Instead, it uses shapes and colours to create its effect.</p> <p><b>Task 1:</b> Helen Frankenthaler was an American abstract expressionist painter. Look at the paintings by Helen Frankenthaler (below) and write your answers to the following questions:</p> <ul style="list-style-type: none"> <li>• What colours and shapes can you see?</li> <li>• How does the painting make you feel?</li> <li>• Why do you think the artist has</li> </ul>	<p><b>Resources</b></p> <ul style="list-style-type: none"> <li>• Templates provided</li> <li>• Internet access</li> </ul> <p><b>Starter</b> Look up the word '<i>metamorphosis</i>' and create a definition for it – this will come in useful later!</p> <p><b>Input</b> We are continuing to look develop a deeper understanding of life cycles, based on what we have covered in previous years. This week, we are concentrating on butterflies.</p> <p>First, begin by recapping the life cycle that we studied in KS1 using the PP and clip provided <a href="https://www.twinkl.co.uk/resource/t-t-5221-butterfly-life-cycle-powerpoint">https://www.twinkl.co.uk/resource/t-t-5221-butterfly-life-cycle-powerpoint</a></p> <p>Watch the video about the life cycle of a butterfly and make some notes throughout <a href="https://www.youtube.com/watch?v=7AUeM8Mbalk">https://www.youtube.com/watch?v=7AUeM8Mbalk</a></p> <p><b>Task</b></p>	<p><b>Resources</b></p> <ul style="list-style-type: none"> <li>• Your research from last week</li> <li>• Newspaper template below (will need to be rotated) or downloaded from <a href="https://www.twinkl.co.uk/resource/t-t-13459-newspaper-template">https://www.twinkl.co.uk/resource/t-t-13459-newspaper-template</a></li> </ul> <p><b>Starter</b> Create a word search that contains the names of as many rivers as you can – these could be based in the UK or Worldwide. Challenge your family to complete this! You could complete this online using the following website for a template <a href="http://www.wordsearchcreator.co.uk/upload.php">http://www.wordsearchcreator.co.uk/upload.php</a></p> <p><b>Input</b> This task follows on from the research that you completed last week - we are now going to use this information to write our very own newspaper article, reporting on the issue of plastics in our rivers.</p> <p><b>Task</b> Write your article in a newspaper style – think about an effective headline, the order in which you will include your</p>

<p>follow. Remember you also need to complete the obstacle course.</p> <p>I have attached a link to a clip to help you understand.  <a href="https://www.bing.com/videos/search?q=obstacle+course+on+pavement">https://www.bing.com/videos/search?q=obstacle+course+on+pavement</a></p> <p>How creative can you be?</p> <p>Please feel free to share some of your courses.</p>		<p>painted this picture?</p> <ul style="list-style-type: none"> <li>Which painting would you choose to display in your house and why?</li> </ul> <p><b>Task 2:</b>  Can you work in groups with your family to draw round yourselves on a big sheet of paper? Lay on a big piece of paper and draw around your body. If you don't have a big sheet of paper, could you use chalk on the floor? Or you could draw many stick people outlines on an A4 piece of paper?  The drawings will and should overlap to create abstract shapes. Then can you fill in each of the sections with different paints or colouring pencils or shading with a writing pencil.  For an extra challenge, you could choose a mood to communicate e.g. joyful. You need to select the paint colours carefully to convey the mood.</p> <p><b>Extra Work:</b>  Could you find a piece of music that matches the mood of one of Helen Frankenthaler's paintings or your own painting/drawing? Think about the colours used.</p>	<ol style="list-style-type: none"> <li>Create your own version of the butterfly life cycle on the shaped template below – add detailed notes about what happens at each stage, including any key vocabulary.</li> <li>Do all species of butterfly have the same life cycle? Research two of the following butterfly species and create a fact card about it – look to see if the life cycles are identical or not: Red Admiral, Cabbage White, Brimstone, Peacock, Speckled Wood and Comma.</li> <li>Use <a href="https://www.bigbutterflycount.org/">https://www.bigbutterflycount.org/</a> to take part in this years count – take a look at the results already collected to see which species are the most common.</li> </ol> <p><b>Extension:</b> if you want to continue your learning around this topic, have a go at the reading comprehension provided below too!</p>	<p>information, the 5W's and any interviews and quotes that you want to include. Also, try to include a photo and caption – your article can be handwritten or done on the computer.</p> <p>We would love to see some of the finished products, send us a picture!  </p>
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**Art Task I**

**Task I:**



Mountains and Sea, 1962

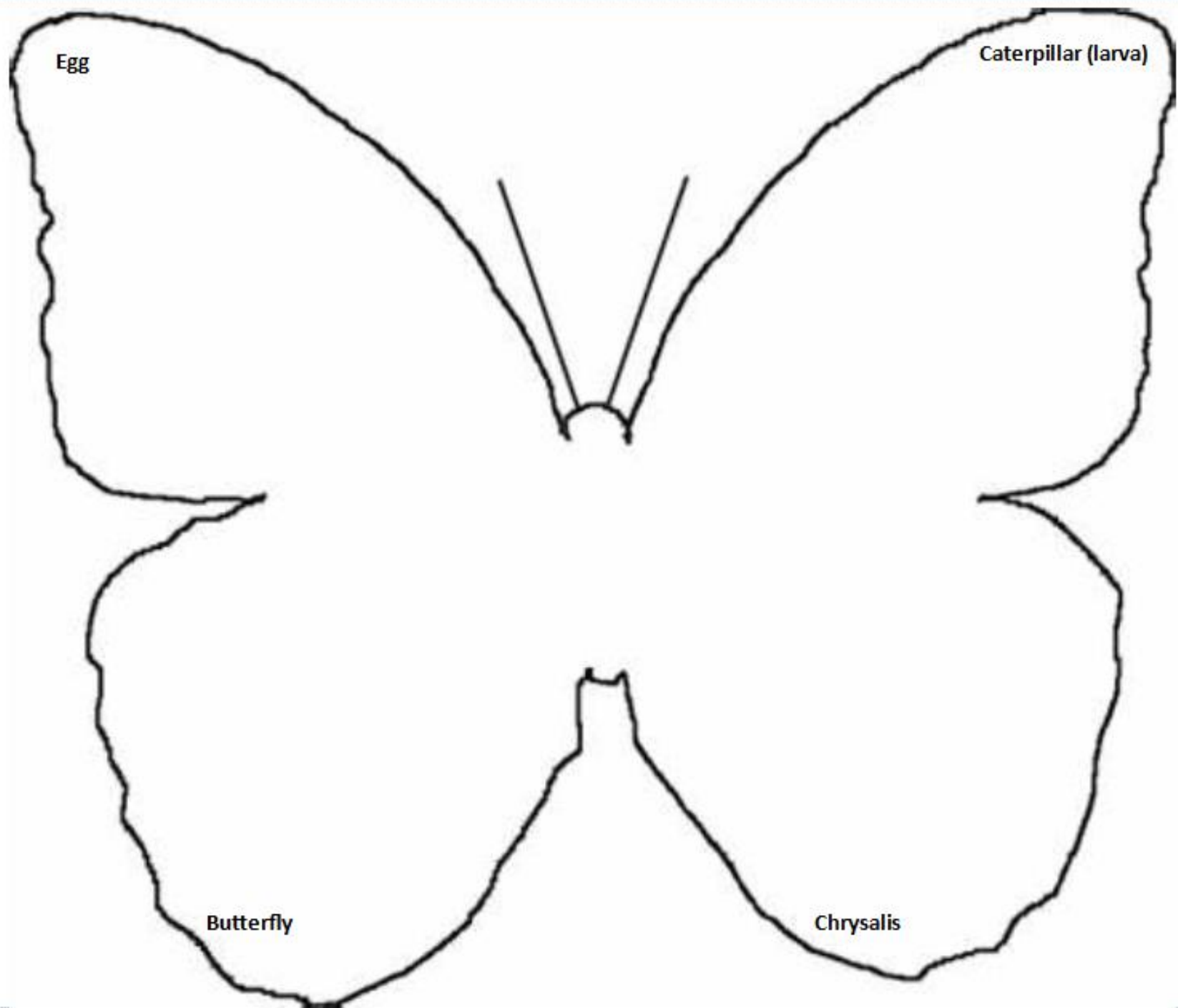


Summerscene Provincetown, 1961



Canyon, 1965

**Science Resources**



# Butterfly Life Cycle

Butterflies have a complete life cycle with four separate stages.



## What happens during the first stage?

During the first stage of the butterfly life cycle, the female butterfly lays her eggs onto a leaf, stem or another object. The new butterfly starts life as a very small egg. The eggs can be round, oval or cylindrical and some are ribbed. The shape depends on the type of butterfly that has laid the egg. If you look really closely, you can actually see the caterpillar growing inside the egg.



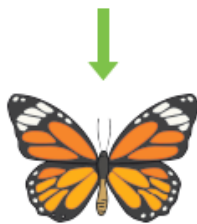
## What happens during the second stage?

During the second stage, a caterpillar (or larva) hatches. It is the long, worm-like stage of the butterfly life cycle. Most caterpillars have interesting patterns, stripes or patches and sometimes spine-like hairs. In this stage, the caterpillar needs to eat lots to grow. The caterpillar usually starts by eating the leaf they were born onto. They do not stay in this stage for long. As it gets bigger, the caterpillar sheds its skin four or more times.



## What happens during the third stage?

During the third stage, the caterpillar forms a chrysalis (or pupa) which is usually brown or green so it is camouflaged. Many hibernate during the winter at this stage. This is the transformation stage, when the caterpillar tissues are broken down and the adult's insect structures are formed, including growing wings. From the outside, it can look like it is just resting, but inside the pupa, it is changing rapidly as the metamorphosis happens.



## What happens during the fourth stage?

The caterpillar transforms into a colourful adult butterfly. When it first emerges, its wings are soft and folded against its body because it had to fit inside the pupa. The butterfly rests and then blood pumps into its wings and they start working and flapping. The butterfly usually learns to fly in 3 or 4 hours. This is the reproductive and active stage. This is usually when the adult butterfly migrates or moves to a new habitat. The adults also mate and the female butterflies lay eggs, beginning the life cycle again.

# Butterfly Life Cycle Questions

1. Why are butterflies advanced insects?

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2. What shape can the butterfly egg be and what does it depend on?

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3. What can you see inside the egg if you look really closely?

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4. What does the caterpillar need to do in the second stage?

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5. What happens to the caterpillar's skin?

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6. What happens during the caterpillar's transformation?

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### Butterfly Life Cycle Questions

7. What can it look like the caterpillar is doing from outside the pupa and what is happening inside?

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8. What is the fourth stage of the butterfly life cycle called and where does the butterfly go?

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9. What are the wings like when the butterfly first emerges and why?

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10. What does the butterfly usually learn to do in 3 or 4 hours?

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## **Geography Resources**



### **Where can I complete further work?**

[Twinkl](#) – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, powerpoints and interactive games to support all areas of learning.

[Classroom Secrets](#) – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

[BBC Bitesize Primary](#) – Free learning resources available for KS1 and KS2 across all subjects.

