

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



**Week Commencing: 20.04.20**

**Year Groups: 5/6**

	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Area of Learning</b>	Subject: <b>PE</b>  LC: To create a fitness routine	Subject: <b>RE</b>  LC: To reflect on the importance of the Easter story to Christians	Subject: <b>Art</b>  LC: To create a landscape collage in the style of Ansel Adams	Subject: <b>Science</b>  LC: To describe the life cycle of a hen	Subject: <b>Geography</b>  LC: To research an environmental issue facing our local rivers
<b>Activity</b>	<p><b>Resources:</b></p> <p><b>Starter/Intro -</b> Think about all of the morning fitness sessions that you have completed at school? Think about the moves/actions that were involved.</p> <p><b>Task</b> Your task today is to produce your own fitness routine to music. You can select your own music. You might even like to record it or teach your routine to your family members.</p>	<p><b>Resources</b> -(Optional) internet access to recap on the Easter story -(Optional) copy of the egg outline -Pencils/colouring pens etc.</p> <p><b>Starter</b> How much can you remember about the Easter story? Talk about the Easter story with others at home and see if you can remember the main events in order. Write them down. When you have finished, you may want to read this illustrated story. <a href="https://www.topmarks.co.uk/easter/easterstory.aspx">https://www.topmarks.co.uk/easter/easterstory.aspx</a></p> <p><b>Task</b> Today, we are going to think about what the Easter story means to Christians. You are going to design an Easter egg with a Christian theme. This could be using the paper template below, drawing your own, using your own egg or any other resource you may</p>	<p><b>Resources</b> -(Unwanted) Newspapers, magazines, leaflets, different coloured paper -Glue -Scissors</p> <p><b>Starter:</b> Firstly, can you define what a landscape is? What different landscapes are there? Rural and Urban?</p> <p><b>Task 1:</b> Ansel Adams was a landscape photographer and environmentalist known for his black and white photographs of the American West. Look at the landscape photographs by Ansel Adams below and write your answers to the following questions:</p> <ul style="list-style-type: none"> <li>• What can see you see (think about the use of colour and how many different colours you can see)?</li> </ul>	<p><b>Resources</b></p> <ul style="list-style-type: none"> <li>• Internet access</li> <li>• Worksheets (below)</li> <li>• Pencils</li> </ul> <p><b>Starter</b> Try this online quiz to see how many of these birds/parts of birds you can identify by unscrambling their names - <a href="http://www.sciencekids.co.nz/quizzes/wordscrambles/bird.html">http://www.sciencekids.co.nz/quizzes/wordscrambles/bird.html</a></p> <p><b>Write your answers on a piece of paper, then use the website to check if your answers are correct.</b></p> <p><b>Input</b> In KSI, you will have looked at the simple life cycle of a hen, from egg to chick. This lesson is intended for you to recap this knowledge and to extend it a little further/  The life cycles of different animals are all very different – for example,</p>	<p><b>Resources</b></p> <ul style="list-style-type: none"> <li>• Internet access to enable you to complete your research element</li> <li>• Paper and pencils to make detailed notes</li> </ul> <p><b>Starter</b> Use the online game to locate rivers in the UK <a href="https://lizardpoint.com/geography/england-rivers-lvl1-quiz.php">https://lizardpoint.com/geography/england-rivers-lvl1-quiz.php</a></p> <p><b>Input</b> Having looked at rivers from around the world, we now turn our attention to those based in the UK.  We have already looked at some of these in class but are we aware of the problems that they face? How clean are our rivers? What is mankind doing to reduce the pollution of our river systems? This first lesson is intended to be researched based, leading to the writing of a newspaper/magazine article next week.</p>

<p>I can't wait to see some of your routines.</p> <p><b>Cool Down</b> At the end of each activity there should be a cool down. You are very good and you have lots of ideas for stretching out your muscles so you don't ache. Teach your family members some of your cool down stretches.</p>	<p>have! Remember, this is an RE lesson so we are thinking about designing an Easter egg with a Christian theme. If you have any photos of complete designs, we would love to see them! Have fun!</p>	<ul style="list-style-type: none"> <li>• What kind of landscape/environment does the picture show?</li> <li>• Why do you think the artist took this photograph?</li> <li>• How do you feel when you look at the photography?</li> <li>• Which of the photographs would you like in your bedroom and why?</li> </ul> <p><b>Task 2:</b> <b>Could you make a landscape collage using images?</b> A collage is a piece of art made by sticking various different materials (such as photographs, pieces of paper, even fabric) to another backing. Look at Task 2 below to see a couple of examples. You will need a piece of backing paper (white or any colour, any size). Add pictures of landscapes from magazines, leaflets, newspapers, brochures, print outs of landscapes by cutting and sticking them onto your backing paper. Try not to have any of your backing paper showing by the end.</p> <p><b>Further Thinking:</b> Why do you think Ansel Adams photographed the landscapes in black and white? What effect does it have? Pretend you were to use the fill effect tool on paint or Microsoft word and you added colour.</p>	<p>the life cycle of a bird will be different to that of an elephant, which will be different in turn to that of a frog.</p> <p>Watch this video to recap the life cycle of a hen – be sure to listen out for key extra details, such as the incubation period and the physical changes that the hen will experience once it has hatched <a href="https://www.youtube.com/watch?v=FI_6ybYQIDs">https://www.youtube.com/watch?v=FI_6ybYQIDs</a></p> <p>If you are still unsure, you can complete further research about this life cycle online.</p> <p><b>Task</b></p> <ol style="list-style-type: none"> <li>1. Read through the information on the life cycle of a hen and answer the comprehension questions below.</li> <li>2. Use what you have learnt and your own further research to create a glossary for these key terms: <ul style="list-style-type: none"> <li>- Incubation</li> <li>- Fertilization</li> <li>- Embryo</li> <li>- Hatching</li> </ul> </li> <li>3. Challenge your family by creating a 5-question quiz about the hen's life cycle for them to answer – this could be a simple yes/no answer, identify key words or may even take the form of two</li> </ol>	<p>One of the biggest threats to our local rivers is that of plastics – these pollute our rivers but go mainly unnoticed. Use the links below, and any of your own, to research this issue, ready to include the information in your newspaper article:</p> <p><a href="https://environmentjournal.online/articles/uk-rivers-riddled-with-plastics/">https://environmentjournal.online/articles/uk-rivers-riddled-with-plastics/</a></p> <p><a href="https://www.independent.co.uk/environment/plastic-pollution-uk-lakes-rivers-microplastics-friends-of-the-earth-a8810831.html">https://www.independent.co.uk/environment/plastic-pollution-uk-lakes-rivers-microplastics-friends-of-the-earth-a8810831.html</a></p> <p><a href="https://canalrivertrust.org.uk/news-and-views/features/plastic-and-litter-in-our-canals/10-ways-to-reduce-plastic-pollution-in-our-canals">https://canalrivertrust.org.uk/news-and-views/features/plastic-and-litter-in-our-canals/10-ways-to-reduce-plastic-pollution-in-our-canals</a></p> <p><a href="https://www.chroniclelive.co.uk/news/north-east-news/north-east-beaches-hit-plastic-12619811">https://www.chroniclelive.co.uk/news/north-east-news/north-east-beaches-hit-plastic-12619811</a></p> <p><b>Task</b></p> <p>Make detailed notes about this issue using the template below – remember, you need to read through and understand what is being said so that you can make notes in your own words, rather than simply copying from the articles.</p> <p>Begin to think about the quotes that you may want to add to your article – these can be real or made-up by experts of your own creation to support your writing next week 😊</p>
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			What colour if any would you add to the photograph from task 1 and why?	truths and a lie! See which family member can get the most questions right...and let us know how you get on!	
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# Chicken Life Cycle

Chickens are the most common bird on earth. There are around 175 different varieties and about 60 different breeds of chicken. One popular breed is the Rhode Island Red. Chickens are very social animals and like to live as part of a group. Their groups are called flocks. Each flock has some chicks, hens and a rooster. Chickens have their own language of over 30 chicken sounds. Chickens have full colour vision and have dreams when they sleep, just like us! Chickens eat worms, insects, seeds, grains, fruits, vegetables, and lots more. Chickens don't have teeth; they swallow their food whole into a part of their stomach called the gizzard that has tiny stones in it, which help to grind up their food.



1

## What happens during the first stage of the chicken life cycle?

### Egg

The hen lays an egg; they can do this without cockerels. The unfertilized eggs are what humans bake cakes and other foods with and eat cooked as boiled, fried, poached or scrambled eggs. Only if the egg is fertilized by a cockerel, can it become a chick. Chickens lay more eggs when it's warmer. Chicken eggs can be brown, white, blue, bluish green and pink. The hen incubates the eggs by sitting on them to keep them warm. The incubation period for a chicken egg is about 21 days. The yellow part inside the egg is the yolk, which gives the chick the food it needs to grow.



2

## What happens during the second stage of the chicken life cycle?

### Chick

Baby chickens are called chicks. The chick starts its life by hatching from an egg when it is ready. You may see cracks appear on the egg before the chick emerges. This can take a few days. It pecks a hole in the shell with a bump on its beak called an egg tooth. When the chicks first hatch, they are covered with tiny, soft, fluffy feathers called down, but they are wet at first. Down feathers keep them warm.



3

## What happens during the third stage of the chicken life cycle?

### Hen or Cockerel

The chick grows up and changes over time into a chicken. They grow bigger feathers called contour feathers to keep them warm, and flight feathers on their wings and tail. Female chickens are called hens and male chickens are called cockerels but are also known as roosters. Young hens are called pullets. Chickens can live between 10 and 15 years and are raised for their meat and eggs. Cockerels are bigger and more colourful than the hens. They do a little dance to impress the hens. Cockerels protect the hens and the hens protect their chicks. Cockerels have a comb on their head and two wattles under their neck. Hens are ready to lay their first eggs when they are around 6 months old. When the hen lays and incubates an egg, the chicken life cycle starts all over again! Hens can lay around 300 eggs every year.

# Questions about the Chicken Life Cycle

Answer the questions below in full sentences.

1. How many different varieties and breeds of chickens are there? Name a breed of chicken.

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2. How do chickens eat and grind their food?

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3. What can humans make with eggs?

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4. Why do only some eggs become chicks?

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5. How long is the incubation period? How does the hen incubate the egg?

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6. How do chicks begin life? How do they get out of the egg?

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7. What is different about the chicken's feathers compared to the chick's?

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8. How do cockerels look and behave?

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9. What are hens ready to do at 6 months old? How does the life cycle start again?

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**Researching the issue of plastics in our rivers**

**What?** What is the problem? What is happening?

**When?** How long has this been happening for?

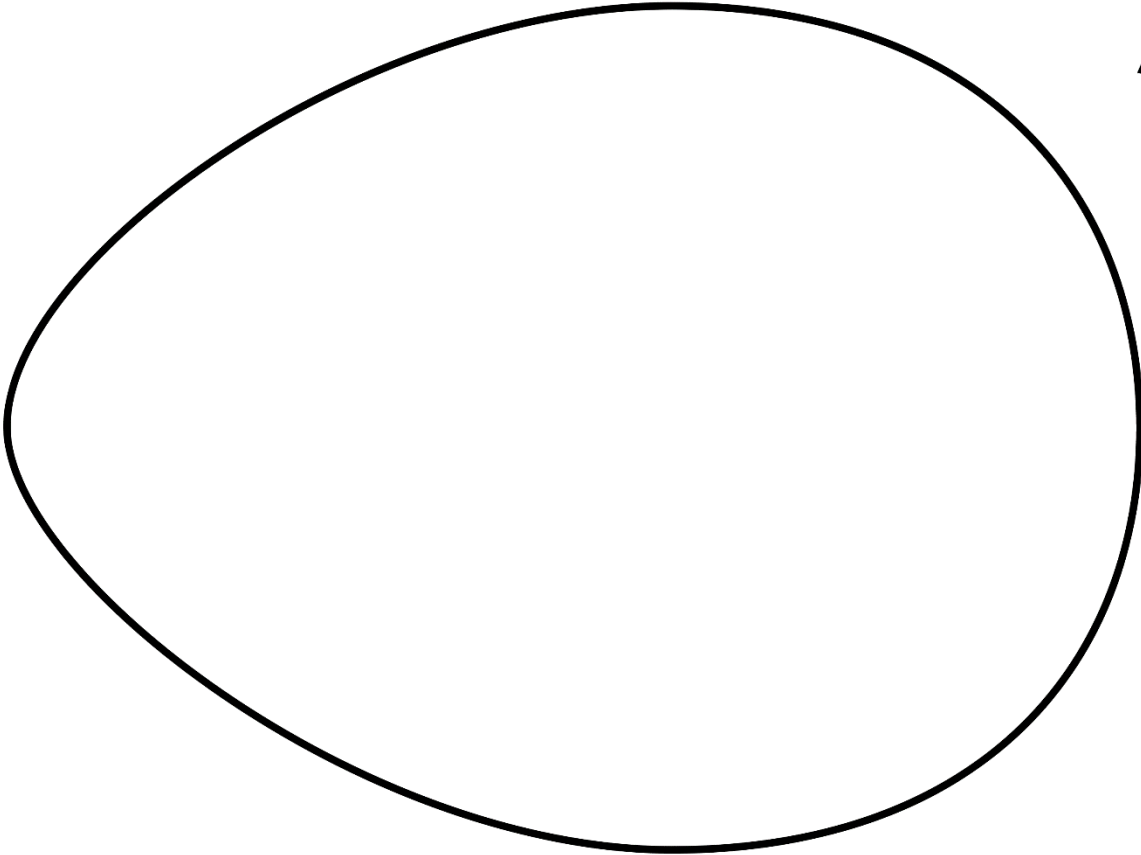
**Where?** Is it all UK rivers? Which are worst affected?

**Why?** What causes this issue? What can we do to stop it?

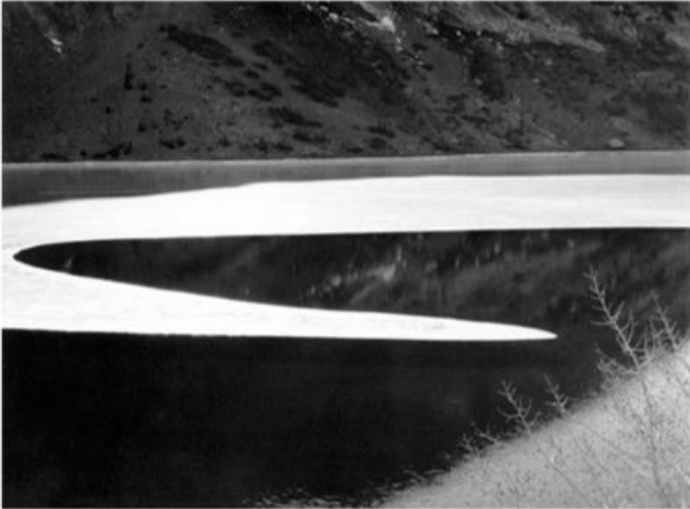
**Facts and figures?** Any key information or statistics that explain what is happening?

**Quotes?** What are the experts saying? Remember, these can be real quotations or made up for the purpose of your article.

RE Optional Egg Outline Sheet



**Art Resources**



Ice on Ellery Lake, Sierra Nevada, 1941



El Captain Winter Sunrise, 1968



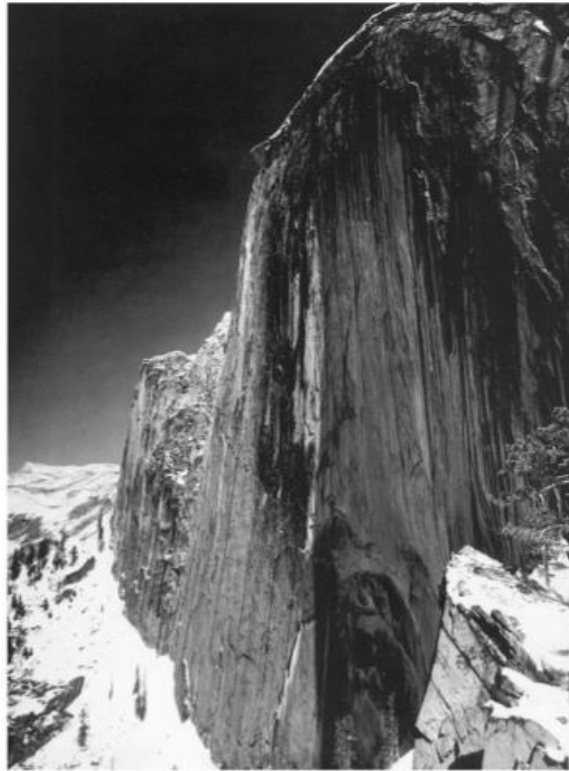


**Canyon de Chelly National Monument, Arizona, 1942**

Ansel Adams



**The Tetons and the Snake, 1942**



**Monolith, The Face of Half Dome, Yosemite National Park, 1927**

Ansel Adams

**Task 2:**

Create a collage of black and white landscapes using newspaper cuttings or images from estate agents or Google images.

Below is an example of a colour collage.



**Where can I complete further work?**

You could complete some research on Ansel Adams.

**Research task:**

Could you draw what you think one of Ansel Adams's photographs would look like in colour or could you write a poem inspired by one of the artist's landscapes?



**The Tetons and the Snake, 1942**

### **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.

**Monday PE Lesson**

**Resting Pulse** .....

**Pulse after exercise** .....

<b>Exercise</b>	<b>Repetitions 1<sup>st</sup> Attempt</b>	<b>Repetitions 2<sup>nd</sup> Attempt</b>
<b>Star Jumps</b>		
<b>Speed Bounce</b>		
<b>Tuck Jump</b>		
<b>Shuttle Runs</b> (Run back and forth in the space you have- one run is 'there and back')		
<b>Burpees</b>		
<b>Sit Ups</b>		