



Cramlington Village Primary School
Science REAL projects template
Spring 2020

Project Name	Project summary What you're going to do and why	Essential question This should be inspiring, not able to be 'googled', requiring you to conduct in depth research and relate to a real world issue	Final project outcome Deadline date? How you will promote? Who will be invited?
What makes a good Scientist?	Break question down into: What makes a good pet owner? What makes a good vet? What makes a good farmer? What makes a good zoologist? What makes a good curator? What makes a good meteorologist?	What makes a good curator? What can we do to support climate change?	Last week of term (Wednesday) - oracy day. Present information about animals to children from St. Michael's school am and then parents pm. Children to send invitations.

Wow moment This needs to happen within the first week of term - preferably on the first day	Key staff	Key contact numbers/websites/resources	Classroom environment What will you be doing to your classroom? What resources do you need	Key text
Animals brought in by Debbie T and Sarah. Debbie talking to the children about how she cares for them (what makes a good pet owner). Children to ask questions. Allison to talk about pigs to yr 1 and chickens year 2 on Tuesday pm. Hancock museum - taxidermy, what makes a good curator? - week 4.	Debbie T Allison Sarah	Debbie Thompson - Range of animals for Monday (gecko, guinea pig, hamster, Sarah's dog). Allison Morton - Tuesday pm. Gemma to bring in tortoise.	Setting a veterinary surgery. Stuffed animal toys, doctor's equipment, cages, etc.	How the tortoise got it's shell Meerkat Mail Lost and Found

Science planning					
Week 1 6.1.20	Week 2 13.1.20	Week 3 20.1.20	Week 4 27.1.20	Week 5 3.2.20	Week 6 10.2.20
<u>Explaining Science and classification</u> <u>A good scientist E.g. observe, use senses etc (look at skills in Phil Watkins)</u> Week 1 - What makes a good pet owner? Introduce T4W - How the Tortoise Got His Shell Mon - Bring in a photograph of a pet they have or an animal that they know. Debbie T to come in and talk to the children about her animals (afternoon). Talk to friend about a pet (trios) in morning about what they already know. Class pictogram of pets children have. Tues - Allison to come in to talk about care plans for pigs and chickens. (pm) What is involved in looking after them? (Pigs - year 1). Writing about pet/animal they know (whole class) -discuss needs (cold write). Weds - Classification of animals (forest school) Thurs - PE - Dance (Carnival of the Animals) Fri - RE Introduce the children to the idea that all religions have rituals. Understand that a Ritual is different from a routine. Week 2 - What makes a good vet? Link to Croft Vet Hospital		<u>Working Scientifically/designing experiments</u> What makes a good zoologist (Steve Irwin)? Week 3 Mon - Who is Steve Irwin? What questions would you ask him? What makes a good zoologist? Create a fact file on him. Tues - Humans - how do they grow? Introducing terms - baby, toddler, teenager and adult - creating time line. Looking at animals and their young. Matching and naming. (Dual objectives: Use relevant words as I talk or write. Use pictures or actions to help describe). Wed - Forest school (squirrels and rabbits) Thurs - PE - Dance (Carnival of the Animals) Fri - How do zoos/farms care for animals? Link to hibernation. Week 4 VISIT TO HANCOCK MUSEUM PLUS WORKSHOP What makes a good curator? Mon - Trip. Tues - AM - recount of trip. PM - Herbivores, carnivores and omnivores. Look at DVD		<u>Data/tables/graphs and drawing conclusions</u> What makes a good meteorologist? Looking at John Dalton and current ones. Weeks 5 and 6 - Maths Measurement, height and length (maths) Week 5 T4W - Writing story Mon - Set up rain gauges (to measure rain fall over week) Recording in a table. Tues - Ice experiment - which ingredient could we use to melt the ice? (adding sugar, salt and sand) Reinforcing fair test. Recording information in a table. Wed - Forest school Thurs - PE Fri - Art Looking at an animal we saw the hancock. Recreating the pattern from it using digital methods. Crop an image that we took and repeat the pattern Week 6 T4W - Innovating Mon - Writing up ice experiment from last week. Tues - Recording rainfall experiment in a block chart.	

<p>ARRANGE VISIT/ VISITOR from CROFT VET HOSPITAL Mon - Vet in to talk to the children about her job. Labelling body parts. What do humans need to stay alive? Why is it important to keep clean? Discuss importance of hand washing. <i>(Dual Science Objectives - Explaining Science - Remember facts about science with help. Use relevant words when I talk or write). Linking senses to body parts.</i> Care plan in literacy for pigs. (Monday and Tuesday) Tues - Classifying different common animals - sort pictures by own criteria and discuss (e.g. live on water, land, have wings/no wings, etc.. (Introduce fish, amphibians, reptiles, birds, mammals through power point) - sort pictures <i>(Science: Group familiar things. Use pictures and actions to help describe).</i> Wed - Forest school Thurs - PE - Dance (Carnival of the Animals) Fri - Art Close up of animals skin. Thinking about recreating one in 4 different ways (pencil, crayon, felt tip and chalk)</p> <p>Living things and their habitats - identifying the habitats that animals live in Classifying things that are living, dead and never alive. What humans and animals need to stay alive (literacy)</p> <p>YEAR 2 Maths (times and divide) Week 1- What makes a good pet owner? Photo of pet on day, care plan of chickens (Debbie T, Allison for pigs and chickens) Mon - Children to bring their photo of their pet/animal they know, Literacy oracy - talk to friends about their pet - trio, Debbie T to bring in animals and do a talk with the children on how to care for them (afternoon) Maths - class pictogram of their pets - interpret. Tues - Allison to come in and talk about pigs/chickens (afternoon) Oracy - trios - discuss how we can care for chickens. Weds - T4W - instruction writing how to care for chickens, identifying habitats that animals live in. Forest school. Thurs - Classifying things that are living, dead and never alive (Sort pictures / clips into living, dead, non-living using assumptions (include robots, lichens, etc). Develop features of living (MRS GREN). Develop definitions for living, dead & non-living (classifying and sorting) Fri - Art - capture images and use paint or photo software to manipulate the images to create a piece of art (photographs taken of animals on Monday)</p> <p>Week 2 - What makes a good vet? (visit from a vet) Mon - T4W - instruction writing how to care for chickens, Science - identifying habitats that animals live in - classifying Tues - PE (gymnastics), Weds - Forest school Thurs - What humans and animals need to stay alive - water, food, air - linking to vets and how we care for animals when they are poorly. (Research foods of other animals. Compare.) Fri - RE - learning from Christmas - good news and how we celebrate it.</p>	<p>clips / pictures of animals eating. Discuss. Identify carnivores, herbivores & omnivores. Sorting activity. <i>(Dual objectives: Group familiar living things. Use relevant words when I talk or write).</i> Compare plastic skulls of carnivore (dog) & herbivore (sheep) & omnivore (human). Note teeth differences (introduce words), muscle strength and eye placement. From the teeth guess what food they eat. Dissecting poo - Is it a herbivore, omnivore and and carnivore. Wed - Forest school - Animal tracks. Thurs - PE - Dance (Carnival of the Animals) Fri - RE Look at the Muslim ritual of Salat and why it is important to muslim people.</p> <p>YEAR 2 Maths (times and divide) Week 3 - What makes a good zoologist? (Steve Irwin) Literacy - T4W - instruction writing how to care for chickens (innovate) Mon - Who is Steve Irwin? What does a zoologist do? What would you like to ask? Create a fact file on him. Tues - Trip Weds - Forest school Thurs - How do zoos care for the basic needs of animals? Link to extinction and adaptation. Fri - RE - Christianity lifestyles (How Jesus treated people who were different - the good samaritans)</p> <p>Week 4 - What makes a good curator? ARRANGE VISIT AND WORKSHOP Literacy - T4W - instruction writing how to care for chickens (invention of their own animal) Mon - Do animals grow in the same way as we do? Develop terms offspring, baby, toddler, child, teenager and adult. Create timeline. How animals grow from babies to adults - can they build how tall the animals are? Tues - PE Gymnastics, Weds - Forest school Thurs - Geography - can we plot where each animal comes from? How are they adapted to their habitat? UK and its countries/oceans. Fri - PSHE Classify foods into groups; healthy/unhealthy</p> <p>Squirrels and rabbit habitats, animal tracks (forest school) Taxidermy animals - animals from around the world - track map Sizing and measurement of animals - animals from babies to adults Living things and their habitats - identifying the habitats that animals live in and looking at adaptation.</p>	<p>Wed - Forest School Thurs - PE - Dance (Carnival of the Animals) Fri - RE Look at the Buddhist ritual of puja and think about why it is important to Buddhists</p> <p>Setting homework - choosing an animal and finding as many facts and information as they can.</p> <p>YEAR 2 Maths (measurement, height and length) Week 5 - What makes a good meteorologist? Weather forecasts Good scientists do... they observe, use senses, make their experiment fair etc. Mon - Recount of their trip, What is a meteorologist? Set up rain gauge - to measure rainfall over week - record data in a table Tues - Literacy letter to curator - inviting them to our exhibition, PE Gymnastics Wed - Forest school Thurs - Reinforcing fair test, gather and record data, understanding that close observation is important along with vocabulary to describe what is happening - fizzy colours - how many drops of vinegar does it take for the colour to start fizzing? Record in a table ready to record next week. Fri - RE Christianity - forgiveness (The Prodigal Son)</p> <p>Week 6 - What makes a good meteorologist? Maths (measurement, height and length) Mon - Poetry - acrostic poem of their chosen animal, Recording data from fizzy colours experiment using a pictogram Tues - PE gymnastics Wed - Forest school Thurs - Recording rain on a block chart, Describing the changes that have happened and suggest different ways to do things. Fri - PSHE personal hygiene - linking to animals and the importance of hand washing</p>		
Half term				
Week 7 2.3.20	Week 8 9.3.20	Week 9 16.3.20	Week 10 23.3.20	Week 11 30.3.20 Oracy open day this week - Wednesday
<p>Holiday homework - choose an animal to research over half term</p> <p>Introduce Meerkat Mail as story. TFW - The Emperor Penguin. Did you know? Sharing homework - Did you know? . . .</p> <p>Week 7 Mon - What is climate? What can we do to help slow down climate change? Tues - Kalahari Desert - animals which live there (linked to Meerkat Mail) Wed - Forest School. Thurs - PE Team Games Using Spaces- participate in team games getting into spaces to make passing easier.</p>		<p>Working in their groups to create their presentation WEEKS 9 Mon and Tues - presentation work. Creating posters to save animals. Wed- Forest School Thurs- PE Team Games Dynamic Defenders Fri- Art Create repeating print of the animal track that they are researching. Press into foam and use roller and paint to create.</p> <p>WEEKS 10 Mon and Tues - presentation work. Wed- Forest school</p>		<p>Year 1 Talking about favourite animals Sensory displays Flaps (questions on top then lift flap to find answer) Posters</p> <p>Year 2 Persuasive letter Exhibition - touch display</p>

<p>Fri - Art Research the print that the animal they have chosen makes, Sketch the print they make. Try to create more than one. How far apart should they be linking to the size of the animal and the length of their legs).</p> <p>Week 8 Writing invitations to Years 1 and 2 from Alnwick School (St. Michael's School) for Oracy day. Vegan day - raising awareness of the impact of animals on climate change - parent donations? Mon - Introduce Antarctica - animals which live there. Tues - Blubber experiment. Water experiment (to show how animals adapt to their environment). https://www.ncl.ac.uk/media/wwwnclacuk/facultyofsage/sageoutreach/files/Newcastle%20STEM%20Outreach-KS1-Senses.pdf Wed - Forest school Thurs - PE Team Games Marking players Understanding that by 'marking' a person means blocking them and following them. Fri - RE Discuss with the children the ritual of Holy Communion and why it is important to Christians</p> <p>YEAR 2 Week 7 - What is a climate? Speaker from University Newcastle Literacy - T4W - should animals be kept in a zoo? For and against. Choose an animal they like - should it be kept in captivity/be free (innovation) Mon - Hot and cold areas in the world in relation to the equator (mini globes) Tues - PE Wed - Forest school Thurs - Identify the 7 continents - world animals and where they live. Map out places and look at adaption. Link features with living requirements. Compare to desert, rainforest, ocean, beach - why are these animals suited to their habitat? Fri - Art - animal prints</p> <p>Week 8 Vegan day? Literacy - T4W - should animals be kept in a zoo? For and against. Choose an animal they like - should it be kept in captivity/be free (innovation) Mon - Invitations inviting children from Alnwick to come to our oracy exhibition Tues - PE Wed - Forest school Thurs - Food chains (Use examples to create food chains. Record as large paper chains with pictures stuck on. Link back to collected specimens.) Fri - RE Judaism festivals and celebration Shabbat</p>	<p>Thurs- PE Team games Perfect Passing Fri- RE Look back at the rituals we have learnt about. What do they all have in common, what is different about them?</p> <p>YEAR 2 Week 9 Literacy - Posters, Save the Polar Bear... etc. Creating questions and answers - Displays for our exhibition RE -</p> <p>Week 10 Literacy - RE -</p> <p>Create their own habitat for their chosen animal.</p> <p>4 sections - zoom in on an animal Discovery dog - How to be a good pet owner? Cat and dog shelter - advert</p>	<p>Factual questions - questions and answers (animal - endangered) Invitations Presentation on favourite animal - animal they have chosen for T4W</p>
--	---	---

Lesson	Key milestones What are you going to do/ write/create/build?	Learning goals What key parts of the curriculum will this include? (long term plan holds all of the curriculum content) What skills will be practised?	
		Year 1	Year 2
Focus literacy	Create care plans Create posters and exhibits for museum day.	T4W - How the Tortoise Got His Shell MeerKat Mail Writing care plans Composing sentences about their animals - punctuation. Spelling rules - s and -es. Suffixes -ing, -ed, -er and -est. Reading words with contractions.	T4W - instruction writing how to care for chickens - innovate to create a care plan on how to care for their animal. Lost and Found Poetry - acrostic T4W - persuasive text - should animals be kept in a zoo? For/against Adverbs Suffixes -ment -ness

Focus numeracy		Number and Place value Addition and subtraction Measures (Height, weight, length and volume)	Times and divide Measurement
Forest school		Habitats Looking after animals Food	Living things including humans Habitats
Computing		Snatch Jnr - creating own programs. Handling data.	
PE		Dance - Carnival of the animals (first half) Games (second half)	Gymnastics - amazing animals Games
History Geog		Significant individuals - Steve Irwin Identify seasonal/daily weather patterns in the UK and the location of hot and cold areas of the world in relation to the equator and the North and South poles.	Significant individuals - Steve Irwin
Art/DT		Printing and creating repeating patterns. Using rollers, foam etc Creating a collage picture using different mediums (chalk, charcoal, pen, pencil, crayon, pastels).	
RE		Finding out about rituals in religions. Focusing on Christianity, Muslim and Buddhist religions. Identify rituals that show togetherness	