

Adaption, Evolution and Human Intervention

Task 1: - What is selective breeding?

L.O - To explain how humans have created new varieties of living things through selective breeding.

1) Watch the BBC video - what is selective breeding?

Science KS1/KS2: What is selective breeding?

BBC Teach > Primary resources > KS1 Science > KS2 Science > Evolutionwatch



Michael Strachan introduces the concept of inherited characteristics in beagle puppies.

<https://www.bbc.co.uk/teach/class-clips-video/science-ks1-ks2-what-is-selective-breeding/z6cs382>

2) Read the PowerPoint - All about - Dog Breeding

3) Complete the dog breeding task

Task 2 - The Ethics of Dog Breeding

L.O - to identify advantages and disadvantages of specific interventions.

- 1) Read the Ethics of Dog Breeding PowerPoint
- 2) Study the plan for a balanced argument.

I have given you 3 planning grids to use, use the one that you feel suits you best. 1 star is the easiest and 3 star is the more challenging.

- 3) You need to research two strong points that **support** selective dog breeding and two that are **against** selective breeding. Use information from the PowerPoint plus your own personal knowledge and further internet research to complete this task.

Task 3 - Human Intervention in the evolutionary process

L.O - to demonstrate understanding of the issues raised by human intervention in the evolutionary process.

With the advancements of genetics and technology, humans have pushed the science of breeding to a new level.

There is:

- Genetically Modified Foods (GM Foods)
- Cloning
- Animals growing human parts and organs



Research one of these areas and present a factsheet that answers the following:

- 1) Describe what the process is
- 2) Should humans intervene in this way? Why? Why not?
- 3) What effects will this have on living things in the future - advantages and disadvantages?

Task 4 and 5 - Photography Project

Task 4

Step 1 - Get used to your camera - complete the photograph challenge.

(see worksheet 1)



L.O experiment with getting the desired image:

(see worksheet 2)

i) Close up images

ii) Creating a composition. (e.g. getting your body in different positions - low levels etc. or moving items to create the perfect scene.

Step 2 - experiment with editing tools - either on tablet/phone or if you have photography software have a play with that.

(see worksheet 3)

L.O use the editing tools - use the cropping tool to get rid of excess picture you don't need.

L.O use any colour, contrasting tools to improve the final picture.

Task 5

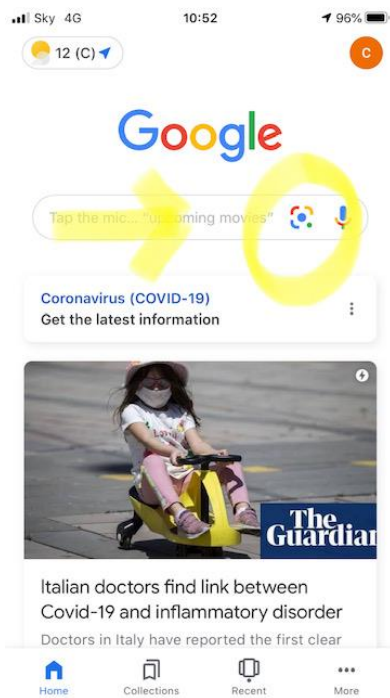
Walking in the shoes of Charles Darwin

You have been asked to record the living things in the area where you live.

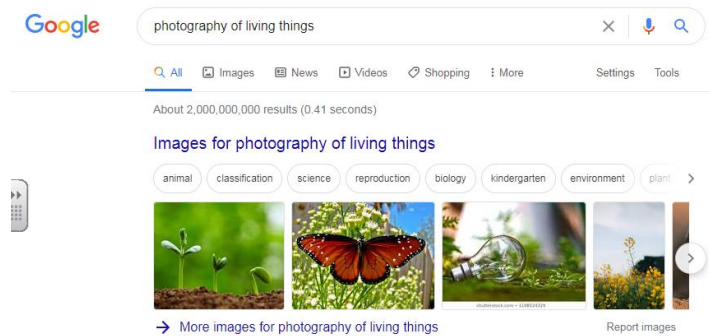
Take a collection of photographs of the living things that you can see around you. Consider plants, garden/household creatures, pets, and people.

Submit your 5 best photos. Make sure that they are labelled with their name (extension - add Latin name)

If unsure of name of living thing: use Google lens and take a picture - it will search for the name of it.



Have a look at existing photographs - Google photography of living things, Photography of British wildlife.



Please send your finished work to the year 6 email address:

Year6@Nettleham-Junior.Lincs.sch.uk