

# A Question of Taste trail

## Go to Level 5 – Survival Gallery

### 1 Find the DNA barcode reader

What percentage of DNA do humans share with chimpanzees?

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### 2 Find the *Origin of the Species*

Which theory is Darwin famous for coming up with?

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Can you summarise it?

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### 3 Look at the chickens

Chickens have evolved through artificial selection rather than natural selection.

Can you think of any other species which have been bred by humans using artificial selection?



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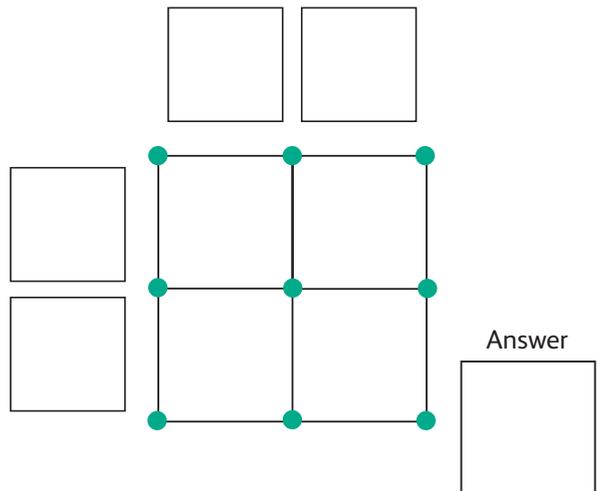
### 4 Examine yourself in the mirror and consider the genetic traits you can see

Can you roll your tongue?

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If two parents both have one tongue rolling gene and one non-tongue rolling gene each, what is the percentage chance they will have a non-tongue rolling child?

Work this out using Punnett square (remember tongue rolling gene is dominant).



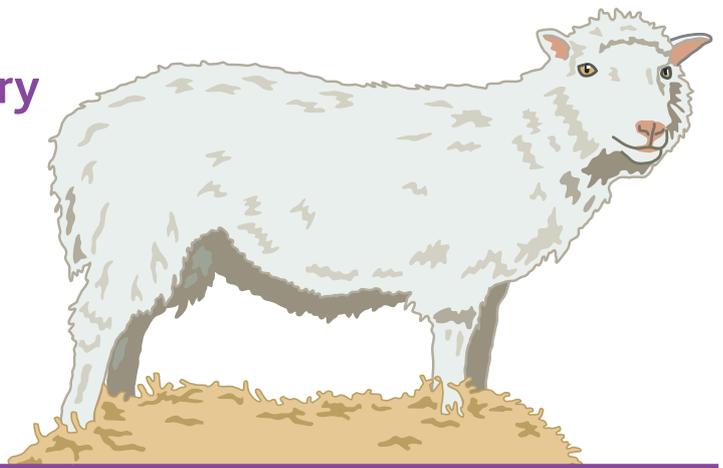
### 5 Look in the cases around you for examples of variation in nature

Which do you find the most interesting and why?

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# Go to Level 1 – Explore Gallery



## 6 Find Dolly the Sheep

Dolly was the first mammal to be cloned from an adult cell. Using your own knowledge and information you can find next to Dolly, complete the table below:

Advantages of cloning	Disadvantages of cloning
1	1
2	2
3	3

Do you agree with cloning?

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If you had the chance to clone something, what would it be?

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## 7 Find the case behind Dolly about miniaturization

How can DNA sequencing be made faster and cheaper?

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## 8 Find chip numbers 1 and 5

What are the main differences?  
Which do you think would be most effective?

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## If you have time...

Find the touchscreens along the wall about genetics. There are three games to play:

1 Design a Baby

2 Genetic Science

3 Glowing Pigs



Plus, how long can you keep our cute digital creature GEN alive? Use objects in our biomedical collections to diagnose and treat our sickly little blob! Play online [www.nms.ac.uk/gen](http://www.nms.ac.uk/gen)

What was the MinION used for?

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# Go to Level 3 – Parasites exhibition

**9** Pick up a *Build a Parasite* card and look out for the four stamper stations



**10** Find the gorilla poo

What did scientists discover from studying gorilla poo?



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**11** Look at the public health poster for malaria in the USA

Malaria is no longer found in the USA. Can you think why might this be?

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How might this change in the future and why?

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**12** Find the pipette

What is interesting about it?



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**13** Look at the liquid handling robot

Why might this be useful rather than having a person handle the samples?

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What other hazards might scientists face whilst working in the lab or in the field?

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**14** Look through the microscopes

Sketch what you can see.

