

# Moa - evidence or inference?

**This task is about the difference between evidence and inference.**

Scientists think that moa lived very successfully in New Zealand for many hundreds of thousands of years and became extinct some time after the arrival of people. What we know about the moa comes mainly from scientists who look carefully for evidence and then use that to make inferences about what moa looked like and how they behaved.



Evidence is something that you can see or count.

An inference is a new idea based on what you have seen.

For example, moa bones have been found all over New Zealand. This is evidence that moa existed. We can see the bones.

An inference based on this evidence is that moa lived all over New Zealand.

a) In your group sort the statements on cards into those that are evidence and those that are inferences. Match each inference card to its appropriate evidence card, and place them below.

Evidence	Inference

Cut out the statements below, discuss in your group and put them in the table above.

The only fossil remains of a large predator found to date are those of the Haast eagle.	There were few natural enemies so the moa would have needed few protective adaptations.
Moa did not move around over large areas.	All gizzard stones scientists have found, match the stones found nearby.
Preserved moa stomach contents found include twigs, leaves and berries.	Smooth polished stones have been found with moa skeletons.
Moa lived in forest, not open grassland.	Moa, like many other birds, swallowed stones to grind up food in their gizzards.

b)i) Using the information from the cards, show a likely food chain for the moa before the arrival of people in New Zealand.

ii)What evidence did you base your ideas on?

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c)Why do you think the moa became extinct after the arrival of people?  
Give as many reasons as you can.

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