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Sc!ence	Class:
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The Scientific Method – Alienate This!

Imagine that an interplanetary spacecraft from Earth landed on a planet orbiting the star Betelgeuse, in the constellation of Orion. As astronauts from the spacecraft explored the planet, they came across a strange organism. In a record of their exploration, one astronaut wrote the following report about the organism:

	Astronaut's Report About the Organism	Observation	Inference
a)	The organism frowned to show that it did not like strangers.		
b)	The organism is green, with brown spots.		
c)	The organism lives near other small, colourful organisms.		
d)	The organism moved away from us because it was afraid.		
e)	The organism makes gurgling noises.		
f)	The organism has four toes on each foot and each foot is webbed.		
g)	The organism has one blue eye and two purple ears.		
h)	The planet must be hot because the organism was perspiring.		
i)	The organism can turn its head in a complete circle.		
j)	The organism moves slowly, so it must be old.		
k)	The organism can pick-up objects with its three fingers.		
I)	The organism's arms are longer than its legs.		
m)	The organism must like eating yellow plants because it is holding ten of them.		
n)	The organism has no fingernails or toenails.		

1. Show whether each statement is either an *inference* or an *observation* by placing a tick in the relevant box − ☑. Remember, an observation is something that you see, hear, taste, smell or touch. An inference is something you might decide about an object or an event after you have observed it. When were the astronauts observing? When were the astronauts deciding something they did not really observe?



• Adapted from Gifted Education Branch, Ministry of Education, Singapore.

• Scan the QR code given below to view the answers to this assignment.



http://www.nygh.sg/nature_of_science/worksheets/8_alienate_this_ans.pdf