1.0 SCIENCE

1. Describe the process of scientific inquiry.

2. A student who has access to a worldwide computer network is asked to survey across the world to establish the colour of crows. The student states at the outset that all crows are black. Using a correct random sampling method, the following data is obtained:

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Country	Number of Black Crows Observed	Number of Crows of Any Other Colour
Argentina	42	0
Canada	38	0
China	56	0
Italy	23	0
Nigeria	16	0
Total	175	0

a) What is the student's hypothesis?

	b) Does the data obtained confirm or deny the hypothesis?
	c) What generalization, if any, can be made?
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	d) Is this generalization absolutely true?
	e) Is it reasonable to use the generalization as being true?
	f) Does observing more crows, and finding that they are black, increase the validity of the generalized
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	a) It only one crow is reported to be white from anywhere in the word in the generalization still ve
	g) If only one crow is reported to be white from anywhere in the word, is the generalization still va
	a) Explain what is a hypothesis.
	 a) Explain what is a hypothesis. b) What is a scientific model? Give a couple of examples.
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Science 10 Homework and Assignment Manual

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5. Is scientific knowledge ever final?	
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6. What are some of the characteristics of the scientific attit	ude? Make a list.
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	etermined by social forces?
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3. What is a paradigm?	-
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