

## Living 'Links' to the Scottish Curriculum

**Lesson: Measuring Behaviour** 

## (2012) Revised Higher Biology - UNIT 3 - Sustainability & Interdependence

Content	Notes	Suggested Learning Activities
2. Interrelationships and dependence iii) Primate behaviour	Long period of parental care in primates gives an opportunity to learn complex social behaviours.  To reduce unnecessary conflict, social primates use ritualistic display and appeasement behaviours.  Grooming, facial expression, body posture and sexual presentation important in different species.	Activities  Living Links power point  Visit Edinburgh Zoo or the Highland Wildlife Park for the lesson on Primate behaviour. <a href="http://www.edinburghzoo.org.uk/education/scho">http://www.edinburghzoo.org.uk/education/scho</a>
	In some monkeys and apes, alliances form between individuals which are often used to increase social status within the group.  Complexity of social structure related to ecological	oleducation/lessonprogr amme/secondary/index. html
	niche, resource distribution and taxonomic group.	Download Edinburgh Zoo resources and conduct a self-guided visit.  http://www.edinburghzoo.org.uk/education/resources/secondary.html
		Case study on primate behaviour.  http://www.educationsc otland.gov.uk/higherscie nces/biology/unitthree/interrelationships/primat ebehaviour.asp











## (2012) Revised Advanced Higher - Unit 2 - Organisms & Evolution

Content	Notes	Suggested Learning Activities
e.) Measuring and recording animal behaviour	An ethogram of the behaviours shown by a species in a wild/zoo context allows the construction of time budgets	Use an ethogram and time sampling to compare the behaviour of different individuals of
	Measurements such as latency, frequency and duration. The importance of avoiding anthropomorphism	a species.

## (2012) Revised Advanced Higher - Unit 3 - Investigative Biology

Content	Notes	Suggested Learning Activities
Scientific Principles and process     a.) Scientific Method	Science is the gathering and organisation of testable and reproducible knowledge. In the scientific cycle, hypothesis testing involves the gathering, recording and analysis of data, followed by the evaluation of results and conclusions. New hypotheses may then be formulated and tested.	Ppt and Hannah's paper
b.)Scientific literature and communication	The importance of publication of methods, data, analysis and conclusions in scientific reports so that others are able to repeat an experiment.  Common methods of sharing original scientific findings include seminars, conference talks and posters and publishing in academic journals. Most scientific publications use peer review. Specialists with expertise in the relevant field assess the scientific quality of a submitted manuscript and make recommendations regarding its suitability for publication. Some journals also publish review articles, which summarise current knowledge and recent findings in a particular field. Critical evaluation of science coverage in the wider media. Increasing the public understanding of science and the issue of misrepresentation of science in the media.	Reference paper used in ppt.  Leonardi, R., Buchanan-Smith, H., Dufour, V., MacDonald, C. and Whiten, A. (2010). Living Together: Behaviour and Welfare in Single and Mixed Species Groups of Capuchin (Cebus apella) and Squirrel Monkeys (Saimiri sciureus). American Journal of Primatology 72:33-47.  Idea - Have students choose a different paper and interpret and present it in the same format for the others in the class.







