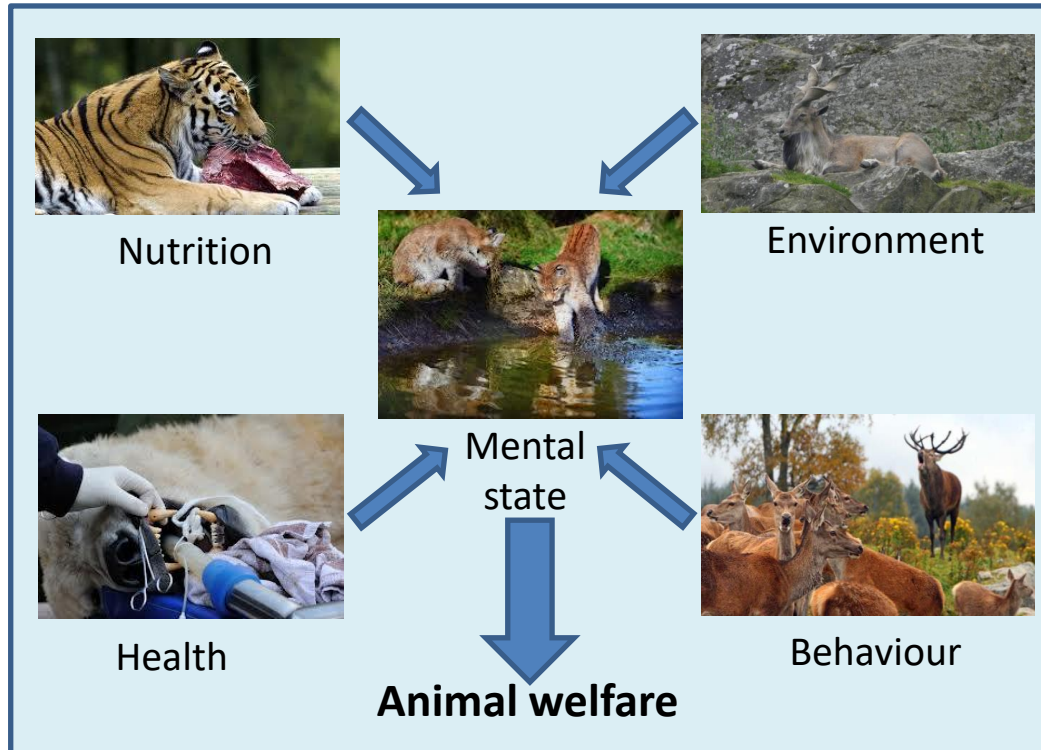


# Animal Welfare Exercise

To understand what constitutes good welfare in captive animals, we must find a way to successfully assess and measure welfare. This is not always an easy task due to different species and their varying needs, as well as the consideration of their individual needs. However, in more recent years, science-based assessment of animal welfare in captive animals has benefited from increased interest in and research into consciousness, emotions, stress and pain.

In the past, the Five Freedoms of Animal Welfare have successfully acted as a foundation, defining and underpinning fundamental animal welfare standards and considerations. Yet whilst past focuses have been on negative experiences and minimising distress, recent concepts have led to the consideration of positive factors and the development of various positive welfare measures. This encourages the management of animals to promote positive experiences and mental states.

The model of the **Five Domains of Potential Welfare Compromise** has evolved since its original development and illustrates how compromises in an animal's nutrition, environment, health and behaviour can all impact upon its mental state. These five domains may overlap and have combined effects on the overall welfare status of an individual animal and thus The 'Five Domains' concept can serve to offer a useful framework for the broad assessment of animal welfare.



In the Five Domains model, the four physical or functional domains (nutrition, environment, health and behaviour) are concerned with biological function, or physical wellbeing, and the fifth domain, the mental state, considers the 'affective state' or psychological wellbeing.

The four functional (physical) domains feed into the fifth domain (mental) domain. This affective state represents the animal's overall subjective feelings and experiences and hence this fifth domain is a key element of animal welfare.

An animal may have positive or negative emotional states and it is the balance between these subjective experiences that can influence an individual animal's 'Quality of Life'.



**“In your informed opinion, do these animals appear to have a good quality of life in captivity.  
Is the enclosure and social grouping appropriate?”**

This simple system should allow a moderately rapid assessment of selected species. Students will have to conduct background research of the study animals with regards to their environment, wild diet, body condition, normal appearance, behaviour and their specific needs.

Category	Description	Definition for full compliance (Score 5 for full compliance and 1 for least compliance. Score accordingly to what you see)
<b>Environment</b>	Utilised	All areas and features of the environment are accessible and are used
	Safe	Environment is free of hazards
	Separation	Animal can choose to distance themselves from the public or other animals
	Challenging	Environment demands suitable movement and intellectual and decision making adaptations
	Permanent	Environment offers full opportunities throughout the year
	Enriching	Environment provides opportunities for free choices, meets the species specific needs and allows full behavioural and physical expression
<b>Diet</b>	Suitability	Zoo diet:
	Hydration	Access to clean water
	Well fed	Good body condition, not too fat or thin.
<b>Health and Body condition</b>	Agile	Physically fit and appropriately active
	Lean	Within normal weight range – free from excessive body fat
	Toned – body	Developed and visible muscles
	Healthy coat	Displays full colour and density
	Healthy	Appearance is healthy
	Fitness	No appearance of injury
	Strong	No appearance of frailty
<b>Behaviour</b>	Active	Exhibits significant activity and engages with items within the enclosure. Spends considerable part of their time on physical activities in the enclosure.
	Relaxed	Shows calmness whilst awake
	Bright	Behaviour is positive
	Playful	Shows object and/or member of the same species directed play
	Sociable	Do they act appropriately to members of the same species
	Purposeful	Intended actions and outcomes are achieved
	Communicative	Relates to members of the same species through vocal and non-vocal signals
	Engaged	Responds attentively to visual and physical stimuli
	Alert	Exhibits awareness of local and distant environment
	Natural behaviour	No unusual behaviours (stereotypical behaviours)
	Normal breathing	Breathing is normal and not laboured or frantic
	Painlessness	Discomfort in movement or expression
	Steady	Steady when moving, no erratic movement (dizzy)
	Calm	No appearance of anxiety
Content	Relaxed and content within	
Comfort	No appearance of helplessness / distress	
<b>Welfare score</b>	<b>Total score</b>	All the scores added together. Score range 32 – 160. 32 – poor, and 160 is exceptional. <b>Score 32</b> = 20% - Poor welfare / more study required, <b>Score 80</b> = 50% Average, some improvement required, <b>Score 129</b> = 80% - Very good welfare

Date: \_\_\_\_\_ Weather and Temp: \_\_\_\_\_

Score rating (1-5): Full compliance = 5, least compliance / no behaviour recorded = 1

If observing a group please give an overall score with notes indicating individuals of concern.

Species:	Environment						Diet			Health / Body condition						Behaviour										Score							
	Utilised	Safe	Separation	Challenging	Permanent	Enriching	Suitability	Hydration	Well fed	Agile	Lean	Toned - body	Healthy coat	Healthy	Fitness	Strong	Active	Relaxed	Bright	Playful	Sociable	Purposeful	Communicative	Engaged	Alert	No stereotypical behaviour	Normal breathing	Painlessness	Steady	Calm	Content	Comfort	Total welfare score
Group or individual (Please circle) N°:																																	
Score																																	
Observation notes. (Code)																																	
Start time:																																	
Finish time:																																	

Observational notes: \_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

**Total welfare score:**

**Percentage:**  
(score / 160 x 100 = %):

Please rate the enclosure in its current state. (Please circle)

Do you feel the enclosure meets the animals physical and mental needs?

Poor

1

2

3

4

5

6

7

8

9

Excellent

10

**SUMMARY (Highlights of main issues identified in audit):**

**ACTIONS and RECOMMENDATIONS (Highlights the main solutions to the issues identified in audit):**

**Total welfare  
score:**

**Percentage:**

(score / 160 x 100 =  
%):

**Score range 32 – 160.**

32 – poor, and 160 is exceptional.

- **Score 32** = 20% - Poor welfare / more study required.
- **Score 80** = 50% - Average, some improvement required.
- **Score 129** = 80% - Very good welfare.