

## Study guides

### Regulation of emotion

1. What is emotion? What are the characteristics that distinguish emotion from reflex?

Emotions are biological states associated with the nervous system brought on by neurophysiological changes variously associated with thoughts, feelings, behavioral responses, and a degree of pleasure or displeasure. There is currently no scientific consensus on a definition. Emotion is often intertwined with mood, temperament, personality, disposition, creativity and motivation. Emotions are organized bi-phasicly, as appetitive or aversive (defensive). Reflexes with the same valence as an ongoing emotional state are augmented; mismatched reflexes are inhibited. Thus, the startle response (an aversive reflex) is enhanced during a fear state and is diminished in a pleasant emotional context. This affect-startle effect is not determined by general arousal, simple attention, or probe modality. The effect is found when affects are prompted by pictures or memory images, changes appropriately with aversive conditioning, and may be dependent on right-hemisphere processing. Implications for clinical, neurophysiological, and basic research in emotion are outlined.

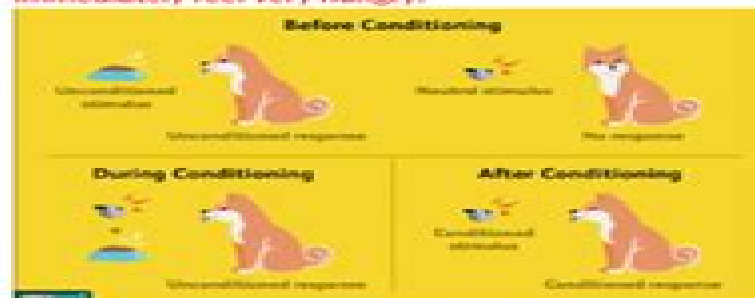
Lang, Peter J., Margaret M. Bradley, and Bruce N. Cuthbert. "Emotion, attention, and the startle reflex." *Psychological review* 97.3 (1990): 377.

2. Fear conditioning as a model behavior to study emotion

Fear conditioning is a behavioral paradigm in which organisms learn to predict aversive events. It is a form of learning in which an aversive stimulus (e.g. an electrical shock) is associated with a particular neutral context (e.g., a room) or neutral stimulus (e.g., a tone), resulting in the expression of fear responses to the originally neutral stimulus or context. This can be done by pairing the neutral stimulus with an aversive stimulus (e.g., a shock, loud noise, or unpleasant odor). Eventually, the neutral stimulus alone can elicit the state of fear. In the vocabulary of classical conditioning, the neutral stimulus or context is the "conditional stimulus" (CS), the aversive stimulus is the "unconditional stimulus" (US), and the fear is the "conditional response" (CR).

#### Concepts of CS and US

In classical conditioning, the conditioned stimulus is a previously neutral stimulus that, after becoming associated with the unconditioned stimulus, eventually comes to trigger a conditioned response. The unconditioned stimulus is one that unconditionally, naturally, and automatically triggers a response. 4 For example, when you smell one of your favorite foods, you may immediately feel very hungry.



# Classical Conditioning Study Guide Answers

**Charles G. Morris, Jan Mendoza**



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