Myers' *PSYCHOLOGY*(7th Ed)

Chapter 12 Motivation

Motivation

Motivation

 a need or desire that energizes and directs behavior

Instinct

- complex behavior that is rigidly patterned throughout a species and is unlearned
 - Bird knowing to fly south for the winter

Motivation

- Drive-Reduction Theory
 - the idea that a physiological need creates an aroused tension state (a drive) that motivates an organism to satisfy the need



Motivation

Homeostasis

- tendency to maintain a balanced or constant internal state
- regulation of any aspect of body chemistry around a particular level

Incentive

 a positive or negative environmental stimulus that motivates behavior

Intrinsic Motivators

- Refers to motivation that comes from inside an individual rather than from any external or outside rewards, such as money or grades.
- It is stronger than external motivation
 - Intrinsic Motivation creates creativity, if you do not use intrinsic motivation to complete something you would lack creativity



Extrinsic Motivators

• Refers to motivation that comes from external or outside rewards, such as money or grades.

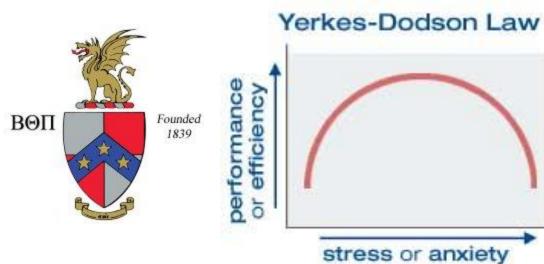


Arousal Theory

• We are motivated to seek an optimum level of arousal.







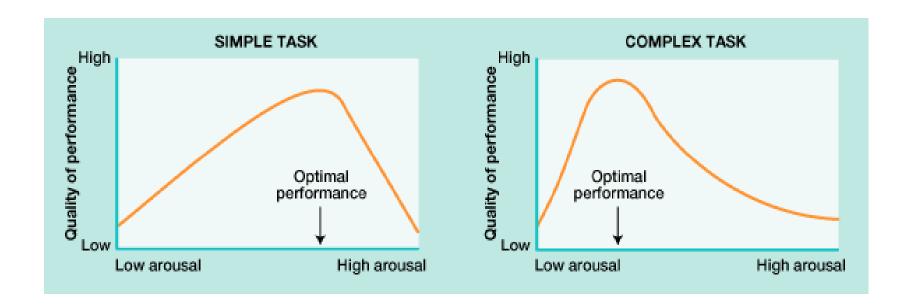






Yerkes-Dodson Law

- States that there is an optimal level of arousal for best performance on any task
- The more complex the task, the lower the level of arousal that can be tolerated without interfering with performance



Maslow's Hierarchy of Needs

Self-actualization needs

Need to live up to one's fullest and unique potential

Esteem needs

Need for self-esteem, achievement, competence, and independence; need for recognition and respect from others

Belongingness and love needs

Need to love and be loved, to belong and be accepted; need to avoid loneliness and alienation

Safety needs

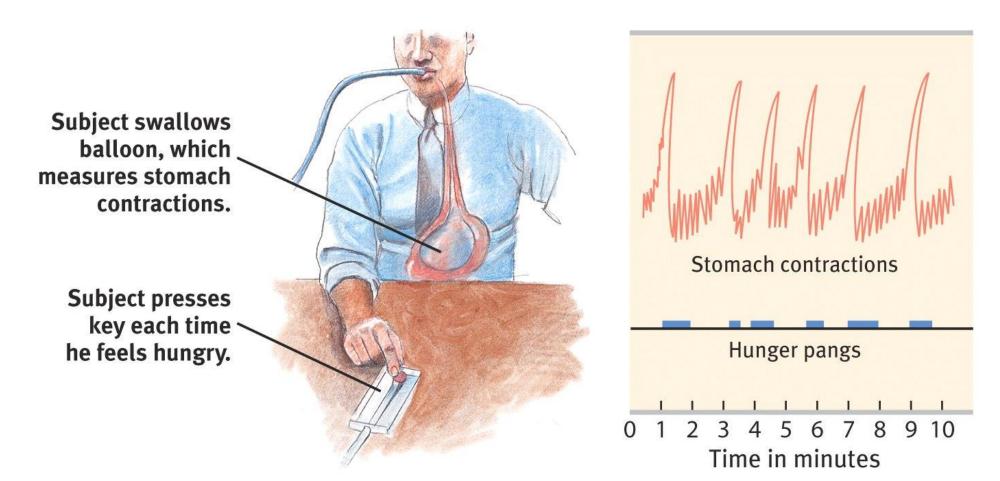
Need to feel that the world is organized and predictable; need to feel safe, secure, and stable

Physiological needs
Need to satisfy hunger and thirst

- begins at the base with physiological needs that must first be satisfied
- then higher-level safety needs become active
- then psychological needs become active
- If you view work as a calling then you would classify work as a higher level need

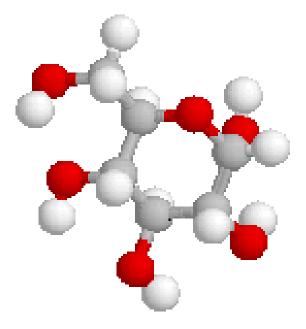
Motivation-Hunger

Stomach contractions accompany our feelings of hunger



Glucose: C₆H₁₂O₆

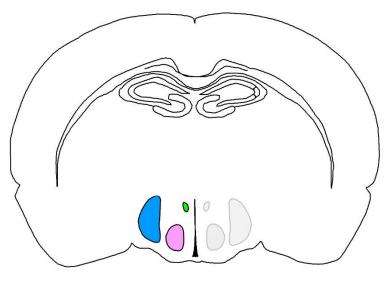
The glucose level in blood is maintained by your pancreas. Insulin decreases glucose in the blood, when the level gets too low, we feel hungry.



Glucose Molecule

Glucose & the Brain

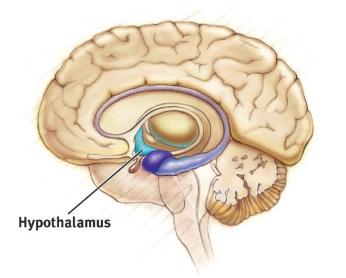
Levels of glucose in the blood are monitored by receptors (neurons) ir the stomach, liver, and intestines. They send signals to the hypothalamus in the brain.



Rat Hypothalamus

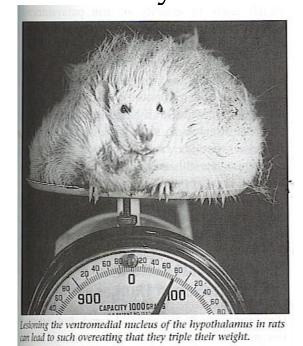
Hypothalamic Centers

- •The lateral hypothalamus (LH) brings on hunger (when stimulated lab animals ate!).
- Destroy the LH, and the animal has no interest in eating.
- The reduction of blood glucose stimulates *orexin* in the LH, which leads one to eat



Hypothalamic Centers

- The ventromedial hypothalamus (VMH) depresses hunger (satiety)
- Destroy the VMH, and the animal eats excessively.





Leptin

- Fat cells in our body produce leptin
- Hypothalamus monitors these levels
- High levels of leptin signal the brain to reduce appetite or increase the rate at which fat is burned.
- Leptin deficiency can cause obesity

The Psychology of Hunger

- •Environmental cues can trigger the biological responses (increased insulin production)
- •Memory plays an important role in hunger. Due to difficulties with retention, amnesia patients eat frequently if given food (Rodin et al., 1998).
- •Emotional attachment?
- Social expectations
- Conditioning

Taste Preference: Biology or Culture?

Body chemistry and environmental factors influence not only *how much or when* we feel hunger but *what* we feel hungry for!





Eating Disorders

Anorexia Nervosa: A condition in which a normal-weight person (usually an adolescent woman) continuously loses weight but still feels overweight.





Lisa O'Connor/Zuma/Cor

Eating Disorders

Bulimia Nervosa: A disorder characterized by episodes of overeating, usually highcalorie foods, followed by vomiting, using laxatives, fasting, or excessive exercise.

Motivation-Hunger

Set Point

- the point at which an individual's "weight thermostat" is supposedly set
- when the body falls below this weight, an increase in hunger and a lowered metabolic rate may act to restore the lost weight

Basal Metabolic Rate

body's base rate of energy expenditure

Women's Body Images

