

Why do we care about fat?

Our contemporary preoccupation with fat sets the scene for a discussion of fat metabolism, its genetic, nervous and hormonal control, and behavioral implications.

Readings about **Sexual Selection** can be found in **Chapter 12 & 36**.

Readings about **Diet, Nutrition and Body Weight** can be found in **Chapter 32**.

Readings about **Hormones** can be found in **Chapter 28**.

Review Readings about **Cellular Respiration** can be found in **Chapter 6**.

Review Readings about **Mendelian Genetics** can be found in **Chapter 10**.

Review Readings about **Mutations** can be found in **Chapter 7**.

Sexual Selection

- Not sure what the functions of **courtship behaviors** can be? Read p. 738
- Not sure what is meant by **sexual selection**? Read pp. 252 and 738
- Not sure why sexual selection can lead to **sexual dimorphism**? See p. 738
- Need an explanation of **why females are more commonly “choosier”** about mates? See p. 738
- Need an example of the **handicap** hypothesis? See p. 739
- Not sure what conditions lead to **monogamy** and which to **polygamy**? Read p. 739
- Where can you learn more about sexual selection in **humans**? Read p. 740-741
- Want to know more about the link between **genes, hormones, and monogamy**? Read *Addicted to Affection* on p. 586-587.
- For a great example of a **sneaky male/female mimic**, see *Cross-dressers of the Reef*, p. 744-745

Weight Control

- For a discussion of the relationship among weight gain, **diet, and exercise**, read pp. 658-660.
- For the role of **Leptin** in the control of weight gain, see pp. 207 and 660
- Not sure how **proteins and lipids enter cellular respiration**? Read p. 113 and fig. 6.9
- Not sure how **metabolic poisons** can result in weight loss? Read pp. 111-112 & 114.

Endocrine System

- Not sure what a **hormone**, what produces it and what they do? See p. 576-577.
- Not sure what is meant by a **target cell**? See p. 578.
- Need to know more about **peptide hormones**? See p. 578

- Want to know more about how **steroid hormones** work? Read p. 579
- Not sure how a **negative feedback loop** works? See p. 528-529 and 577
- Not sure how the **hypothalamus** and **pituitary** are involved in metabolic control? Read pp. 580-581
- Not sure of the role of the **thyroid** in metabolic control? Read p. 582-583