READING:	From Chapter	16 (Animal	Physiology t	ext, Eckert, et al)
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- A. METABOLISM GENERAL DISCUSSION:
 - 1. What specific roles of energy metabolism can you identify from Fig. 16-1 and accompanying text?
 - 2. Is it totally unfortunate that respiration in not 100% efficient? Explain.

- B. TEMPERATURE CLASSIFICATIONS OF ANIMALS:
 - 1. Use Figure 16-2 to explain the two broad classifications. How is hypothermia and hyperthermia represented on the figure?
 - 2. Define heterothermy -
 - 3. Distinguish temporal and regional heterothermy:

HETEROTHERMY:

TYPE	Definition	Examples
Temporal		
Regional		



- C. EXPRESSING ANIMAL METABOLIC RATES
 - 1. Distinguish the following ways of expressing metabolic rates in animals:
 - a. Basal Metabolic Rate (BMR) -

		b.	Standard Metabolic Rate (SMR) –
		C.	Sustained (Active) Metabolic Rate –
	F	d.	Metabolic Factorial Scope
	2.	Wh	at is <i>oxygen debt</i> (or oxygen deficit)?
		a.	How would it affect determination of <i>metabolic rates</i> if time is not allowed between periods of different exertion by the animal?
		b.	How would failing to recognize oxygen debt cause error in estimating <i>metabolic factoria scope</i> ?
D. MEASURING METABOLIC RATES – Explain how each of the following approaches		RING METABOLIC RATES – Explain how each of the following approaches are used:	
	1.	Foc	od intake and waste removal
=	2.	Dire	ect Calorimetry
	3.	Indi	rect Calorimetry