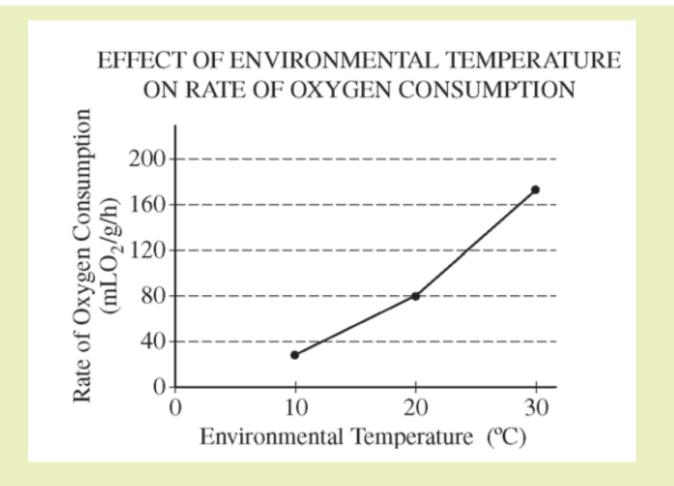


(a) Based on the graph, describe a specific method of thermoregulation used by the species of animal.
 Provide support for your answer using the data.





FRQ Friday ##27

2014 #7

(a) Based on the graph, describe a specific method of thermoregulation used by the species of animal.
 Provide support for your answer using the data.

Describe method (1 point)	Support (1 point)
This species is an ectotherm/incapable of endoregulation	 Increased metabolic rate/O₂ consumption rate/respiration rate with increased temperature
	 Decreased metabolic rate/O₂ consumption rate/respiration rate with decreased temperature
	 If the animal were endothermic, O₂ consumption rate/respiration rate/metabolic rate would increase with decreasing temperature
Behavior to adjust body temperature, i.e., seeking shade, basking in the sun, burrowing in mud, evaporative cooling	 Increased metabolic rate/O₂ consumption rate/respiration rate with increased temperature
	 Decreased metabolic rate/O₂ consumption rate/respiration rate with decreased temperature
	This species is ectothermic/incapable of endoregulation



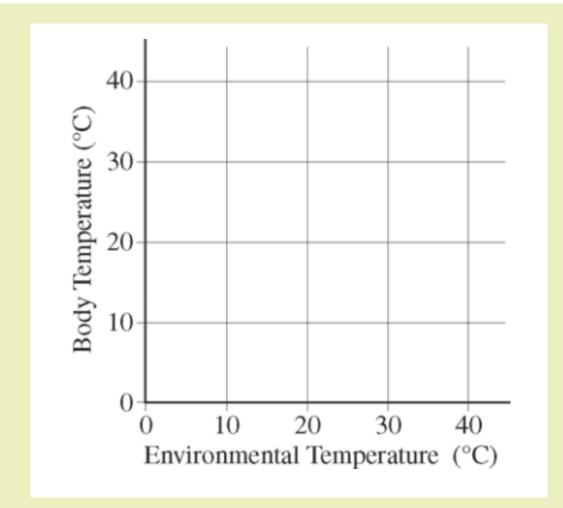
(a) Based on the graph, describe a specific method of thermoregulation used by the species of animal.
 Provide support for your answer using the data.

A method of thermorgulation is ectothermic regulation
experienced by cold-blooded annots such as reptiles like.

Itards. Ectothermic regulation means that the enumerate controls
the body temperature of the organism. As the enumerated
temperature increased, body temperature and other metabolic
activities increased causing an increase in rate of oxygen consumption.

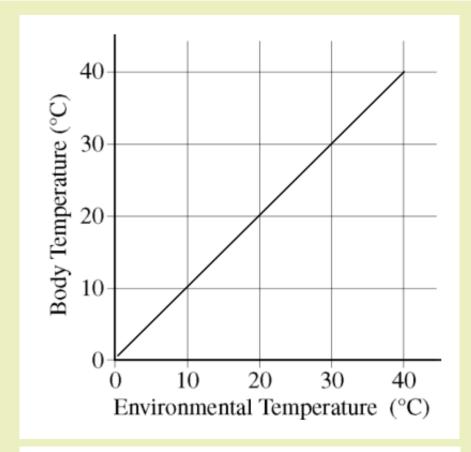


(b) On the labeled axis provided below, **draw** a line to indicate the most likely relationship between body temperature and environmental temperature in the species.





(b) On the labeled axis provided below, **draw** a line to indicate the most likely relationship between body temperature and environmental temperature in the species.



Line/curve with positive slope

