

# ORIENTATION, NAVIGATION, HOMING

- Types of orientation: (1) Positional orientation, (2) Object orientation, (3) Strato-orientation, (4) Zonal orientation, (5) Topographical orientation, (6) Kinesis, and (7) Taxis.
- (1) Positional orientation: animals maintain their upright posture against gravity. It is called positional orientation.
- Vertebrates show positional orientation.
- (2) Object orientation: when an animal tries to get an object such as food, it is called object orientation.
- (3) Strato-orientation: when animals swim vertically in water, it is called strato-orientation.
- Aquatic animals show strato-orientation.
- (4) Zonal orientation: when an animal moves from one zone to another zone, it is called zonal orientation.
- When an animal moves from grassland to forest, it shows zonal orientation.

orientation.

- A migratory bird shows topographical orientation.
- (6) Kinesis: Kinesis is the undirected movement of an animal in response to a stimuli.
- Types of kinesis: (a) Orthokinesis, and (b) Klinokinesis
- (a) Orthokinesis: in which the speed of movement of the individual is dependent upon the stimulus intensity.
- For example, Cockroaches move from brighter areas to darkness. With increased darkness, there is an increase in the speed of movement.
- (b) Klinokinesis: in which the angle of movement of the individual is dependent upon the stimulus intensity.
- For example, Cockroaches move from light to dark.



# Animal Orientation Navigation

**R Bogdan**



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web the outsiders a novel written by s e hinton contains many dynamic characters however the main character ponyboy curtis endures the most change he witnesses many life changing events over the course of two weeks which heavily contributes to his transformation in the beginning ponyboy feels isolated and alienated from the world

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web cherry valance bob s girlfriend she is a soc cheerleader whom ponyboy meets at the movies cherry s real name is sherri but people call her cherry because of her red hair ponyboy and cherry have a great deal in common

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