



PLANT AND ANIMAL RESPONSES

BIOLOGY

LEVEL 3

Study Checklist

If you've picked up this checklist, congrats! You've begun the first step in a system of resources designed to help you through the Plants and Animals external. To make the most of this, we suggest you sit down, grab a pen, and mark any points that you're feeling a little unsure of. Then, create a subject audit using our template, or refer to the page numbers to find the section in our walkthrough guide to help you out!

BIOLOGICAL RHYTHMS

- | | | | |
|--|-----|---|-----|
| <input type="checkbox"/> I can describe what a biological rhythm is | [4] | <input type="checkbox"/> I can give an example of a circannual rhythm | [6] |
| <input type="checkbox"/> I can define a circadian rhythm | [4] | <input type="checkbox"/> I can define a circatidal rhythm | [6] |
| <input type="checkbox"/> I can give an example of a circadian rhythm | [5] | <input type="checkbox"/> I can give an example of a circatidal rhythm | [6] |
| <input type="checkbox"/> I can define a circannual rhythm | [5] | <input type="checkbox"/> I can define a circalunar rhythm | [7] |

PHOTOPERIODISM

- | | | | |
|--|-------|--|--------|
| <input type="checkbox"/> I can define photoperiodism | [8] | <input type="checkbox"/> I can explain the function of the two forms of phytochrome | [9] |
| <input type="checkbox"/> I can explain the difference between long day plants, short day plants and day-neutral plants | [8-9] | <input type="checkbox"/> I can explain why it is important for plants to flower at a certain time of day | [9-10] |
| <input type="checkbox"/> I can describe what phytochrome is | [9] | | |

RHYTHMS

- | | | | |
|---|---------|--|------|
| <input type="checkbox"/> I can define an exogenous rhythm | [10] | <input type="checkbox"/> I can define a zeitgeber | [13] |
| <input type="checkbox"/> I can describe things that might control an exogenous rhythm | [10-11] | <input type="checkbox"/> I can explain what entrainment means | [13] |
| <input type="checkbox"/> I can define an endogenous rhythm | [11] | <input type="checkbox"/> I can explain what phase shifting means | [13] |
| <input type="checkbox"/> I can describe what drives an endogenous rhythm | [11] | <input type="checkbox"/> I can explain what an actogram is | [14] |
| <input type="checkbox"/> I can explain what a free running period is | [12] | <input type="checkbox"/> I can explain everything that is on an actogram | [14] |
| <input type="checkbox"/> I can describe the purpose of a zeitgeber | [13] | <input type="checkbox"/> I can find the length of a rhythm using an actogram | [15] |

ORIENTATION RESPONSES IN PLANTS

- | | | | |
|--|------|---|------|
| <input type="checkbox"/> I can define what a tropism is | [17] | <input type="checkbox"/> I can name all of the stimuli that cause tropisms and nastic responses | [18] |
| <input type="checkbox"/> I can explain the difference between a positive and negative tropism | [17] | <input type="checkbox"/> I can describe how plant growth must occur in a tropism response | [19] |
| <input type="checkbox"/> I can explain the importance of a tropism | [18] | <input type="checkbox"/> I can explain what auxin does when there is a directional light source | [19] |
| <input type="checkbox"/> I can define a nastic response | [18] | <input type="checkbox"/> I can explain the role of auxin in roots | [20] |
| <input type="checkbox"/> I can explain the difference between a nastic response and a tropism response | [18] | | |

ORIENTATION RESPONSES IN ANIMALS

- | | | | |
|---|------|--|------|
| <input type="checkbox"/> I can describe what a taxis is and what type of species it occurs in | [20] | <input type="checkbox"/> I can explain how animals locate their home | [23] |
| <input type="checkbox"/> I can describe what a kinesis is | [21] | <input type="checkbox"/> I can explain what migration is | [23] |
| <input type="checkbox"/> I can explain the difference between orthokinesis and klinokinesis | [21] | <input type="checkbox"/> I can explain the pros of migration | [24] |
| <input type="checkbox"/> I can explain what homing is | [22] | <input type="checkbox"/> I can explain how an animal knows when to migrate | [24] |
| | | <input type="checkbox"/> I can explain the cons of migration | [24] |

INTRASPECIFIC RELATIONSHIPS

- | | | | |
|---|------|--|------|
| <input type="checkbox"/> I can describe what a territory is | [26] | <input type="checkbox"/> I can describe what a hierarchy is | [30] |
| <input type="checkbox"/> I can describe what a home range is | [27] | <input type="checkbox"/> I can discuss the difference between a linear and complex hierarchy | [30] |
| <input type="checkbox"/> I can describe what a lek is | [27] | <input type="checkbox"/> I can explain why hierarchies are good in animal populations | [31] |
| <input type="checkbox"/> I can define a niche | [28] | <input type="checkbox"/> I can discuss the difference between monogamy and polygamy and when each would be more useful | [32] |
| <input type="checkbox"/> I can describe Gause's Law | [28] | <input type="checkbox"/> I can discuss the difference between R and K strategy | [33] |
| <input type="checkbox"/> I can explain what would happen if two animals had the same niche | [28] | <input type="checkbox"/> I can describe the purpose of courtship | [34] |
| <input type="checkbox"/> I can explain what an intraspecific relationship is | [28] | <input type="checkbox"/> I can explain the pros and cons of courtship | [34] |
| <input type="checkbox"/> I can describe what competition is and how it can lead to aggression | [29] | <input type="checkbox"/> I can explain some courtship rituals that may be used | [34] |
| <input type="checkbox"/> I can describe the pros and cons of living in a group | [30] | | |

INTERSPECIFIC RELATIONSHIPS

- | | | | |
|---|---------|---|------|
| <input type="checkbox"/> I can describe what an interspecific relationship is | [35] | <input type="checkbox"/> I can explain an example of mutualism | [38] |
| <input type="checkbox"/> I can explain what can cause interspecific competition | [36] | <input type="checkbox"/> I can describe what commensalism is | [38] |
| <input type="checkbox"/> I can describe what exploitation is and list the three types of exploitation | [36-37] | <input type="checkbox"/> I can explain an example of commensalism | [38] |
| <input type="checkbox"/> I can describe what mutualism is | [38] | <input type="checkbox"/> I can explain what mimicry is | [38] |
| | | <input type="checkbox"/> I can discuss the differences between batesian and müllerian mimicry | [39] |