Ecosystem Final Assignment

Create a poster board that illustrates the concept of energy flow through an ecosystem. Your group will represent the organisms of the **rain forests** ecosystem. The poster should include the following concepts: *1) in the middle of the poster show the relationship between sunlight and producer organisms, 2) the relationship between producers and at least three levels of consumers, 3) energy loss in the environment (heat) (show this in numbers),* 4) on the top right hand side of your poster list the animals in your food chain and what niche they have in their ecosystem, 5) bottom right hand side list the limiting factors in your ecosystem and why they are limiting factors, **6) on the top left hand side of your poster list examples of these symbiosis relations: commensalism, mutualism, parasitism and predator-prey; and 7) on the bottom left hand side of your poster explain how the nitrogen cycle cycles through your ecosystem**. To adequately illustrate the web-like connections with the ecosystem, it should include at least three interactions for each level of energy flow. It should have a descriptive title, label of each process and each level within the food web.

|  |  |
| --- | --- |
| Sun light, producer, three levels of consumers. Picture and name of each.  | 10 points  |
| Relations and interactions between each trophic level. | 5 points |
| Loss of heat between each trophic level. | 5 points |
| Animal list and what niche  | 10 points |
| Explain the limiting factors (like water, nitrogen, food, etc…) | 5 point |
| Explain symbiosis relations  | 10 points  |
| Explain the nitrogen cycle in your ecosystem  | 5 points  |
| Neat and organized  | 5 points |

 55 total points

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| --- | --- | --- |
| Symbiosis Relationships  | SunlightProducersConsumers (Food web)\*Add available energy  | Niche  |
| Nitrogen Cycle  | Limiting Factors  |

Ecosystem Final Assignment

Create a poster board that illustrates the concept of energy flow through an ecosystem. Your group will represent the organisms of the **grasslands** ecosystem. The poster should include the following concepts: *1) in the middle of the poster show the relationship between sunlight and producer organisms, 2) the relationship between producers and at least three levels of consumers, 3) energy loss in the environment (heat) (show this in numbers),* 4) on the top right hand side of your poster list the animals in your food chain and what niche they have in their ecosystem, 5) bottom right hand side list the limiting factors in your ecosystem and why they are limiting factors, **6) on the top left hand side of your poster list examples of these symbiosis relations: commensalism, mutualism, parasitism and predator-prey; and 7) on the bottom left hand side of your poster explain how the nitrogen cycle cycles through your ecosystem**. To adequately illustrate the web-like connections with the ecosystem, it should include at least three interactions for each level of energy flow. It should have a descriptive title, label of each process and each level within the food web.

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| --- | --- |
| Sun light, producer, three levels of consumers. Picture and name of each.  | 10 points  |
| Relations and interactions between each trophic level. | 5 points |
| Loss of heat between each trophic level. | 5 points |
| Animal list and what niche  | 10 points |
| Explain the limiting factors (like water, nitrogen, food, etc…) | 5 point |
| Explain symbiosis relations  | 10 points  |
| Explain the nitrogen cycle in your ecosystem  | 5 points  |
| Neat and organized  | 5 points |

 55 total points

|  |  |  |
| --- | --- | --- |
| Symbiosis Relationships  | SunlightProducersConsumers (Food web)\*Add available energy  | Niche  |
| Nitrogen Cycle  | Limiting Factors  |

Ecosystem Final Assignment

Create a poster board that illustrates the concept of energy flow through an ecosystem. Your group will represent the organisms of the **desert** ecosystem. The poster should include the following concepts: *1) in the middle of the poster show the relationship between sunlight and producer organisms, 2) the relationship between producers and at least three levels of consumers, 3) energy loss in the environment (heat) (show this in numbers),* 4) on the top right hand side of your poster list the animals in your food chain and what niche they have in their ecosystem, 5) bottom right hand side list the limiting factors in your ecosystem and why they are limiting factors, **6) on the top left hand side of your poster list examples of these symbiosis relations: commensalism, mutualism, parasitism and predator-prey; and 7) on the bottom left hand side of your poster explain how the nitrogen cycle cycles through your ecosystem**. To adequately illustrate the web-like connections with the ecosystem, it should include at least three interactions for each level of energy flow. It should have a descriptive title, label of each process and each level within the food web.

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| --- | --- |
| Sun light, producer, three levels of consumers. Picture and name of each.  | 10 points  |
| Relations and interactions between each trophic level. | 5 points |
| Loss of heat between each trophic level. | 5 points |
| Animal list and what niche  | 10 points |
| Explain the limiting factors (like water, nitrogen, food, etc…) | 5 point |
| Explain symbiosis relations  | 10 points  |
| Explain the nitrogen cycle in your ecosystem  | 5 points  |
| Neat and organized  | 5 points |

 55 total points

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| --- | --- | --- |
| Symbiosis Relationships  | SunlightProducersConsumers (Food web)\*Add available energy  | Niche  |
| Nitrogen Cycle  | Limiting Factors  |

Ecosystem Final Assignment

Create a poster board that illustrates the concept of energy flow through an ecosystem. Your group will represent the organisms of the **tundra** ecosystem. The poster should include the following concepts: *1) in the middle of the poster show the relationship between sunlight and producer organisms, 2) the relationship between producers and at least three levels of consumers, 3) energy loss in the environment (heat) (show this in numbers),* 4) on the top right hand side of your poster list the animals in your food chain and what niche they have in their ecosystem, 5) bottom right hand side list the limiting factors in your ecosystem and why they are limiting factors, **6) on the top left hand side of your poster list examples of these symbiosis relations: commensalism, mutualism, parasitism and predator-prey; and 7) on the bottom left hand side of your poster explain how the nitrogen cycle cycles through your ecosystem**. To adequately illustrate the web-like connections with the ecosystem, it should include at least three interactions for each level of energy flow. It should have a descriptive title, label of each process and each level within the food web.

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| --- | --- |
| Sun light, producer, three levels of consumers. Picture and name of each.  | 10 points  |
| Relations and interactions between each trophic level. | 5 points |
| Loss of heat between each trophic level. | 5 points |
| Animal list and what niche  | 10 points |
| Explain the limiting factors (like water, nitrogen, food, etc…) | 5 point |
| Explain symbiosis relations  | 10 points  |
| Explain the nitrogen cycle in your ecosystem  | 5 points  |
| Neat and organized  | 5 points |

 55 total points

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| --- | --- | --- |
| Symbiosis Relationships  | SunlightProducersConsumers (Food web)\*Add available energy  | Niche  |
| Nitrogen Cycle  | Limiting Factors  |

Ecosystem Final Assignment

Create a poster board that illustrates the concept of energy flow through an ecosystem. Your group will represent the organisms of the **savanna** ecosystem. The poster should include the following concepts: *1) in the middle of the poster show the relationship between sunlight and producer organisms, 2) the relationship between producers and at least three levels of consumers, 3) energy loss in the environment (heat) (show this in numbers),* 4) on the top right hand side of your poster list the animals in your food chain and what niche they have in their ecosystem, 5) bottom right hand side list the limiting factors in your ecosystem and why they are limiting factors, **6) on the top left hand side of your poster list examples of these symbiosis relations: commensalism, mutualism, parasitism and predator-prey; and 7) on the bottom left hand side of your poster explain how the nitrogen cycle cycles through your ecosystem**. To adequately illustrate the web-like connections with the ecosystem, it should include at least three interactions for each level of energy flow. It should have a descriptive title, label of each process and each level within the food web.

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| --- | --- |
| Sun light, producer, three levels of consumers. Picture and name of each.  | 10 points  |
| Relations and interactions between each trophic level. | 5 points |
| Loss of heat between each trophic level. | 5 points |
| Animal list and what niche  | 10 points |
| Explain the limiting factors (like water, nitrogen, food, etc…) | 5 point |
| Explain symbiosis relations  | 10 points  |
| Explain the nitrogen cycle in your ecosystem  | 5 points  |
| Neat and organized  | 5 points |

 55 total points

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| --- | --- | --- |
| Symbiosis Relationships  | SunlightProducersConsumers (Food web)\*Add available energy  | Niche  |
| Nitrogen Cycle  | Limiting Factors  |