



Energy Transfer Project

Objective: Given the opportunity, each student will research one particular organism and provide a detailed description of that organism's niche. The student will then develop one example of a food chain that the organism would exist in, and one example of a food web. The food chain may become part of the food web.

Project Details:

- All information should be organized into a colorful and neat poster board presentation.
- Information about chosen organism's niche should include:
 - Common and scientific name
 - Picture with caption
 - Detailed information about its natural habitat
 - Common diet: what it eats
 - Common predators: what eats it
 - Other information could include
 - How big the adult form can be
 - How often it reproduces and how many offspring it has per reproductive cycle
 - How much it eats, or how much it needs to eat daily
- Food chain must contain no fewer than **four** organisms
- Food web must contain no fewer than **ten** organisms
- Poster must include pictures and names of each organism included.
- Include a short paragraph or a couple sentences describing the food chain, and a short paragraph describing the food web. Paragraphs should be located near the item they are explaining on the poster.
- Poster must include a Works Cited page glued or stapled to the back.
- Back of poster must be labeled with student's name, class period, and date.

How to insert a picture in WORD:

1. Click on [Insert] in top menu of WORD.
2. Click on the [Picture] icon in the "illustrations" section.
3. Select a picture from a saved file. You must save a picture before you insert it into your WORD document!
4. You can save a picture by right clicking on the picture, selecting [Save As] and saving it to your P:\ drive.

How to document a reference from the internet:

Name of Author or Group. "Title of Article" *Title of Entire Webpage*. Inverted Date of Publication. Inverted Date of Access. <URL>.

Example:

Claire, L. "The Pampas" *The Pampas*. 24 Aug. 2002. 25 Mar. 2008.
<<http://www.blueplanetbiomes.org/pampas.htm>>.

Grading Rubric for Energy Transfer Project

Criteria	Unsatisfactory (0 points)	Satisfactory (1 point)	Above Average (2 points)	Excellent (3 points)
Colorful Presentation	Project contains no color at all	Project contains at least one color	Project contains at least two colors	Project contains at least three colors
Neatness	Project has more than three uneven margins, glue globs or other messy items	Project has three or fewer uneven margins, glue globs or other messy items	Project has two or fewer uneven margins, glue globs or other messy items	Project has one or no uneven margins, glue globs or other messy items
Common Name and Scientific Name	Project missing common and scientific name		Project missing one or the other name	Project contains both names
Picture with Caption	Project missing picture with caption		Project missing either picture or caption	Project contains both picture of organism and caption
Natural Habitat	Project missing information about organism's natural habitat	Project provides vague description of habitat with important info missing	Project provide detailed description of habitat with important info missing	Project provides all important information about natural habitat with great attention to detail
Diet	Info about diet missing	Info vague and unclear	Info present and slightly detailed but reader unsure of exact type of diet	You could eat dinner with this organism and you'd know exactly what was on the menu
Predators	Predators not mentioned in project	Incomplete list of predators present with no description of relationship	List of predators present with no description of relationship	List of predators present with description of predator/prey relationship
Food Chain	Example food chain not present	Example of food chain contains fewer than four organisms and not labeled	Example of food chain contains fewer than four organisms or is not labeled	Example of food chain contains four organisms and is labeled

Food Chain Paragraph	Paragraph missing	Paragraph vague or fewer than three sentences	Paragraph vague with three or more sentences	Paragraph detailed with more than three sentences
Food Web	Food web missing	Food web present with fewer than six organisms and/or not labeled	Food web present with fewer than eight organisms and labeled	Food web present with ten or more organisms and labeled
Food Web Paragraph	Paragraph missing	Paragraph vague or fewer than three sentences	Paragraph vague with three or more sentences	Paragraph detailed with more than three sentences
Pictures of organisms	Pictures of organisms missing	Most pictures of organisms missing (more than eight)	Some of pictures of organisms missing (fewer than four)	All pictures of organisms are present
Names of organisms	Names of organisms missing	Most names of organisms missing (more than eight)	Some of names of organisms missing (fewer than four)	All names of organisms present
Works Cited Page	Works Cited page missing Will result in a ZERO	Works Cited page present but incomplete or incorrect	Works Cited page complete but incorrect	Works Cited page complete and correct
Student Info	Student info missing			Student info present
Spelling/ Grammar	More than five spelling/ grammar errors	3-4 spelling/ grammar errors	1-2 spelling/ grammar errors	0 spelling/ grammar errors
Punctuality	Project not turned in on time			Project turned in on time

Final Score:

Final Score will be multiplied by two for a score out of 100 points.