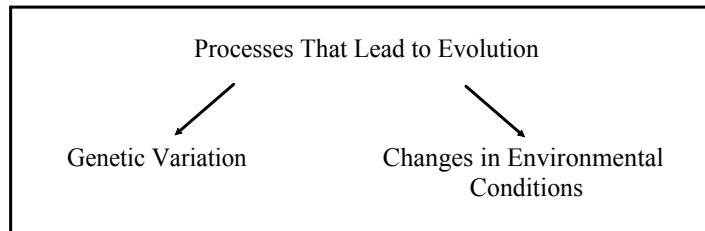


Review terms...

[Notes - Biological Evolution, Adaptations and Natural Selection.pdf](#)

biological evolution - change in inherited characteristics of a population from generation to successive generation
 - touted as the driving force of adaptation to environmental change



genes - segments of DNA found in chromosomes
 - impart certain inheritable traits in organisms

gene pool - sum of all genes possessed by the individuals of a population

mutations - random and unpredictable changes in DNA molecules that can be transmitted to offspring
 - can be caused by external environmental agents (X-rays, ultraviolet light) and toxic organic chemicals

genetic variability - result of millions of random changes in the DNA molecules of individuals in a population

adaptation - any genetically controlled characteristic (structural, physiological or behavioural) that enhances the chance for members of a population to survive and reproduce in their environment

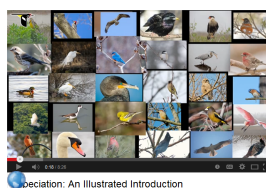
structural adaptations - coloration, mimicry, protective cover, gripping mechanisms

physiological adaptations - ability to poison prey, give off chemicals to repel predators, hibernate during cold weather

behavioural adaptations - migration, resource partitioning, species interactions (ie/parasitism)

natural selection - process by which the best adapted organisms survive and reproduce in a given environment

speciation - the formation of two or more species from one as the result of divergent natural selection in response to changes in environmental conditions



extinction - process by which a species is eliminated from existence when it cannot adapt genetically and reproduce successfully under new environmental conditions

EcoPoint Opportunity...

[Print Word Document and/or Email]

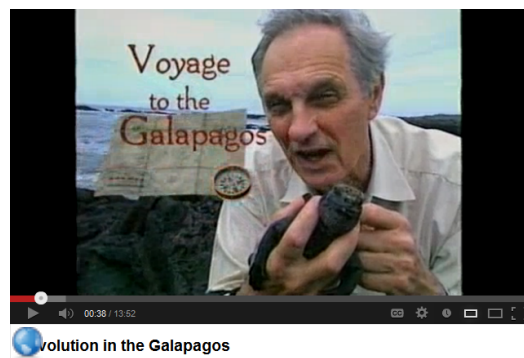
hallihana@nbed.nb.ca

- 2 species per adaptation (structural/physiological/behavioral)
- state the adaptation & need pictures for each

5 ecopoints per adaptation

Processes that lead to Evolution...

1) Changes to the environment



2) Changes to the genetics





Inspirational
Comedian
Judson Laipply
The Evolution of
Dance

Evolution of Dance - By Judson Laipply

judsonlaipply · 5 videos

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924,174 73,829

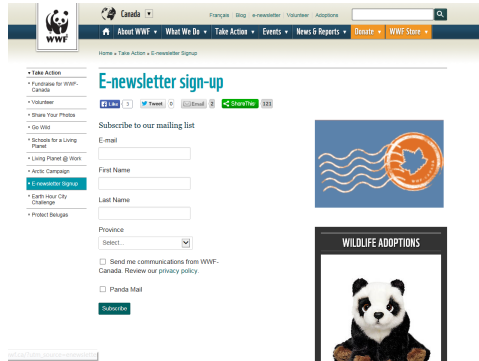
UNIT 1 - An Overview of Environmental Science

- *The Issues*
- *Population Growth and Resource Limitations*
- *Researching Current Environmental Issues*

5 ECO-POINTS...Join a Environmental Newsletters [Up to 20 EcoPoints Total]

Examples:

<http://www.wwf.ca/>



<http://asf.ca/main.html>



Atlantic Salmon Federation News

Tuesday, Sept. 18, 2014

ASF Rivernotes - Will Scotland's Referendum Affect Salmon?

~~~~~  
 his week's update hits several points, including a new **PHOTO CONTEST**, as well as raising the question of impacts on salmon from the **Scottish Referendum** vote. Plus the latest on river reports across the Atlantic salmon range in North America  
<http://atlanticsalmonfederation.org/rivernotes/>

#### ASF RESEARCH BLOG UPDATE -

ASF researchers continue the process of bringing to the surface acoustic tracking devices with their valuable data, and the assessment of streams with electrofishing gear proves very successful.  
<http://asf.ca/research-in-the-field.html>

#### Where have all the Miramichi Salmon Gone?

~~~~~  
 ASF and the MSA raise the alarm that Miramichi salmon returns this year show the runs are in danger.

ASF's **Bill Taylor** discusses the issue on **CBC's AS IT HAPPENS**
<http://asf.ca/bill-taylor-talks-salmon-on-as-it-happens-.html>

Another perspective is given with coverage in **video** and text.
<http://asf.ca/miramichi-salmon-numbers-hit-record-low.html>

The need for bold action is emphasized:
<http://asf.ca/bold-action-needed-to-save-atlantic-salmon.html>

RESEARCH PAPER...

Continue to gather information from a variety of sources - make use of Twitter & Newletters!

<http://www.stopsprayingnb.ca/>



<http://www.stopsprayingnb.ca/2017/04/05/videos/>



Attachments

Notes - Biological Evolution, Adaptations and Natural Selection.pdf