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| Science 9 | Unit A |
| Lesson 5: Hertitable v. Non-Heritable | 84 mins |

Board Niche vs. Narrow Niche

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| Board Niche – organism that is able to live in a wider ecosystem.  Narrow Niche – Organism that can live in a smaller area  Draw a graph populations over time | Greater Chance of survival, Less Species in an Area  Smaller chance of survival outside of it’s ecosystem, but more species can live together. |

Inheritable vs. Non-inheritable

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| *QUESTION: Give an example of a non-physical variation in a species.*  Human Variation BINGO  [www.edquest.ca/component/content/article/25/](http://www.edquest.ca/component/content/article/25/)  Inherited (heritable) – Characteristics that are passed on to offspring directly from parents.  Non-inherited – Characteristics that are acquired and not necessarily passed on from generation to generation | Vertical Lines, X, C, O, Full  Examples: Eye Colour, Hair Type, Skin Colour, Earlobes  Examples: Athleticism, Artistic ability, leadership qualities are all learned during the early years of life |

Discrete and Continuous Variations

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| Discrete – differences in characteristics that have a definite form  Continuous – differences in characteristics that have a range of forms | Examples: Hair colour, earlobes,  Examples: Height, Foot size |

ACTIVITY:

* Have the class clasp their hands above their head and then bring it down and see which thumb is on top.
* Have students line up by foot size.

Environmental Influences

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| Some variations may be influenced by interactions with the environment. These variations are not inherited | Examples:   * Change in pigmentation of skin colour throughout the seasons due to the sun (Tanning) * Height and Weight can be influenced by diet. |