

Name: _____ Date: _____ Class/Period: _____

8.3: Simulate the Effect of Patch Size

Purpose

Explore the effect of patch size on species survival.

Directions

Use the QR code or go directly to :

<http://virtualbiologylab.org/HabitatFrag1.htm>. Select “Fragmentation” and “Run”.

Record the percent of remaining habitat and number of moves for each trial:



% Fragmentation	# Moves	% Fragmentation	# Moves	% Fragmentation	# Moves

At what point can the frog no longer make it to the water?

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8.4: Land Use and Green Space

Purpose

To design a better space where humans, other animals and plants can survive and thrive. Think about the following criteria as you design your space. Address those criteria you think are important in your design and have a reason for your choices.

Design Criteria:

- Continuity: create ecological connectivity for species mobility
- Fragmentation: consider the size of green patches and what can live in these spaces
- Stratification: create rich layers of vegetation
- Naturalize: select plants that will increase biodiversity
- Biodiversity: create habitat variety to support different types of plants and animals
- Recreation: include what is needed for you and others to most enjoy the space
- Attractiveness: create a pleasing design
- Pacification: design for noise reduction
- Biophilia: create areas that feel good to be in
- Health: create spaces that encourage healthy choices
- Water: create spaces that manage water flowing into and out of the habitat as well as access to drinking water
- Cultural: reflect local natural and cultural heritage
- Safety: create spaces where people feel safe to visit
- Comfort: include places to sit, read, and study
- Other:

Design Elements:

As you plan your space, think about what you are placing in the space and its location. Keep track of the reasons for the decisions you are making.