

Lesson Plan

Energy Beads

Class Duration: 45 minutes

Tour Duration: 1 hour

Goals: Explain how energy moves through the food chain and how much energy is lost at each trophic level by creating a necklace to aid in understanding.

Supplies:

- Lanyard
- Variety of beads

Education:

_____ Teachers guide students to discover that all plants & animals (including humans) need energy to survive.

_____ Determine that we all get that energy from the sun

_____ Discuss different trophic levels and how energy is lost between each level

_____ Pass out lanyard and beads and use this visual representation as they string the beads to illustrate how energy is passed through the food chain.

_____ Represent a number of objects with a written numeral 0-20

SCIENCE STANDARDS:

3.1a

4.2a, 4.2b, 4.2c

6.4a, 6.5a, 6.5b, 6.5c, 6.5d

Common Core: K.CC, L.2.4, SL.2.1, L.2.3, W.2.8, SL.2.3,

NGSS STANDARDS:

K.W.2.1

K.CC.3

K-LS1-1

SL.K.3

SL.K.5

K.MD.A.2

1.MD.A-1

5-PS3-1

5-LS2-1