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## Skills Worksheet

## Critical Thinking

## Work-Alikes

In the space provided, write the letter of the phrase that best describes how each numbered item functions.
$\qquad$ 1. carrying capacity
a. a ballroom dance
$\qquad$ 2. coevolution
b. the bully who takes your lunch money
$\qquad$ 3. symbiosis
c. a perfect performance
d. weight limit for a bridge
$\qquad$ 4. niche
e. keeping up with the "Joneses"
$\qquad$ 5. competitive exclusion

## Cause and Effect

In the space provided, write the letter of the term or phrase that best matches each cause or effect given below.

## Cause

6. sustained high
birthrate
7. density-dependent factor
8. $\qquad$
9. $\qquad$
10. density-
independent
factors
11. $\qquad$

Effect
$\qquad$
$\qquad$
星
exponential growth is limited
both species benefit
$\qquad$
 plants evolve toxic compounds
a. disease can wipe out a population
b. mutualistic symbiosis
c. more sunlight is obtained
d. population approaching carrying capacity
e. exponential growth
f. herbivory
g. small populations may not survive drought or fire
12. orchids grow high in tree branches
$\qquad$ Class $\qquad$ Date $\qquad$

## Trade-Offs

In the space provided, write the letter of the bad news item that best matches each numbered good news item below.

## Good News

$\qquad$ 13. Parasites do not usually kill their prey.
$\qquad$ 14. Many plants are protected from herbivores by defensive chemicals.
$\qquad$ 15. Predators are efficient at catching prey.
16. Keystone species maintain a healthy ecosystem.

## Bad News

a. Without them, it would collapse.
b. Some animals can break them down.
c. The host is usually harmed.
d. Some animals have evolved escape mechanisms.

## Linkages

In the spaces provided, write the letters of the two terms or phrases that are linked together by the term in the middle. The choices can be placed in any order.
17. $\qquad$ exponential growth $\qquad$
18. $\qquad$ population $\qquad$
a. predator population _____
b. a group of organisms of the same species
19. $\qquad$ coevolution $\qquad$
c. high birthrate
d. live together in one place at one time
20. $\qquad$ host $\qquad$
e. parasite
f. carrying capacity
g. one is eliminated
h. one is harmed
i. shared niche
j. prey
$\qquad$
$\qquad$ Date $\qquad$

## Analogies

An analogy is a relationship between two pairs of terms or phrases written as $\mathrm{a}: \mathrm{b}:: \mathrm{c}: \mathrm{d}$. The symbol : is read as "is to," and the symbol :: is read as "as." In the space provided, write the letter of the pair of terms that best completes the analogy shown.
$\qquad$ 22. high birthrate : exponential growth ::
a. emigration : death rate
b. low death rate : logistic growth
c. low birthrate : small population
d. immigration : birthrate
$\qquad$ 23. predators : prey ::
a. orchids : trees
b. hosts : parasites
c. herbivores : plants
d. cleaner shrimp : fish
$\qquad$ 24. potential competitors : divided resources ::
a. beavers : dams
b. warblers : spruce trees
c. sea otters : kelp forests
d. large predators : zebras

