Make one set of business size cards for each small student group. If you make each group of cards a different color, it will be easier to separate mixed up groups. If you want to reuse the cards over the school day or in multiple years consider using card stock. Cards for “Lesson 3: Who eats whom?” are cards 1-16. Cards for “Lesson 5: How are organisms related?” are cards 1-28. Cards for “Lesson 6: Biotic, Abiotic, and Dispersal” are cards 1-32.

Make one set of 4x4 classroom cards for use on the printed or projected posters. Consider using magnetic paper (e.g. Avery® Magnet Sheets 3270, 8-1/2 x 11, White, Pack of 5) to make board work easier.

Stoneflies
(Order Plecoptera)

1

Dragonflies and Damselflies
(Order Odonata)

2

Mayflies
(Order Ephemeroptera)

3

Water Beetles
(Order Coleoptera)

4

True Flies
(Order Diptera)

5

Craneflies
(Order Diptera)

6

Dobsonflies and Alderflies
(Order Megaloptera)

7

Caddisflies
(Order Tricoptera)

8

Scuds
(Order Amphipoda)

9

Sowbugs
(Order Isopoda)

10

Crayfish
(Order Decapoda)

11

Snails
(Class Gastropoda)

12

Mayflies (Order Ephemeroptera)
feeding group: Mostly collectors
dissolved oxygen needs: 8-12 mg/L

Dragonflies and Damselflies (Order Odonata)
feeding group: Predators
dissolved oxygen needs: 4.1-7.9 mg/L

Stoneflies (Order Plecoptera)
feeding group: Mostly Predators
dissolved oxygen needs: 8-12 mg/L

Crane Flies (Order Diptera, Family Tipulidae)
feeding group: shredders
dissolved oxygen needs: 4.1-7.9 mg/L

True Flies (Order Diptera)
feeding group: Collectors
dissolved oxygen needs: >4 mg/L

Water Beetles (Order Coleoptera)
feeding group: Scrapers
dissolved oxygen needs: 8-12 mg/L

Scuds (Order Amphipoda)
feeding group: Shredders
dissolved oxygen needs: 4.1-7.9 mg/L

Caddisflies (Order Tricoptera)
feeding group: Shredders, predators
dissolved oxygen needs: 8-12 mg/L

Dobsonflies & Alderflies (Order Megaloptera)
feeding group: Predators
dissolved oxygen needs: 4.1-7.9 mg/L

Snails (Class Gastropoda)
feeding group: Scrapers
dissolved oxygen needs: >4 mg/L

Crayfish (Order Decapoda)
feeding group: Predators, collectors
dissolved oxygen needs: 4.1-7.9 mg/L

Sowbugs (Order Isopoda)
feeding group: Collectors
dissolved oxygen needs: 4.1-7.9 mg/L

Clams and Mussels
(Class Bivalvia)

13

Leeches
(Subclass Hirudinea)

14

Aquatic Earthworms
(Subclass Oligochaeta)

15

Planaria
(Class Turbellaria)

16

Pond Scum
(Filamentous Green Algae)

17

Paramecium

18

Amoeba
(has nucleus)

19

Pseudomonas
(no nucleus)

20

White Pine Tree

21

Oak Tree

22

Oak Leaf

23

Hyaline Mitosporic Fungi

24

Aquatic Earthworms (Subclass Oligochaeta)
feeding group: Collectors
dissolved oxygen needs: >4 mg/L

Leeches (Subclass Hirudinea)
feeding group: Predators
dissolved oxygen needs: >4 mg/L

Clams and Mussels (Class Bivalvia)
feeding group: Collectors
dissolved oxygen needs: 4.1-7.9 mg/L

Paramecium
feeding group: Consumer

Pond Scum (Filamentous Green Algae)
feeding group: Producer

Planaria (Class Turbellaria)
feeding group: Predators

White Pine Tree
feeding group: Producer

Pseudomonas
feeding group: Decomposer

Amoeba
feeding group: Consumer

Hyaline Mitosporic Fungi
feeding group: Decomposer

Oak Leaf
feeding group: Producer

Oak Tree
feeding group: Producer

Salamander

25

Trout

26

Anabaena
(no nucleus)

27

Diatom
(has nucleus)

28

Water Molecule

29

Nitrate

30

Oxygen

31

Phosphate

32

Anabaena
feeding group: Producer

Trout
feeding group: Predators

Salamander
feeding group: Collectors

Diatom
feeding group: Producer