ANSWER KEY:

BIRDS – PRE- POST- ACTIVITIES

Birds – Pre (K-1)
Square around: Crow, Tern, Killdeer, Eagle, Bittern, Egret
Circle around: Penguin, Ostrich, Kiwi

Circle around: Pelican, Wood Duck, Mallard Duck
Triangle around: Barn Owl, American Kestrel
Climbing birds: 2 – Hairy Woodpecker, Northern Flicker

Birds – Pre (2-3)
Square around: White Tailed Kite, American Kestrel, Great Horned Owl, Peregrine Falcon
Circle around: Heermann’s Gull, Wood Duck, Brown Pelican

Wing Beats:
1. < (less than)
2. Hummingbird
3. Chickadee

Birds – Pre (4-8)

Birds – Post (K-3)
Great Blue Heron → Fish
California Quail → Seeds on Ground
Great Horned Owl → Skunk
Anna’s Hummingbird → Tube Flower (Columbine)

Woodpecker feet → #4
Hawk feet → #1
Great Blue Heron feet → #2
Duck feet → #3

Birds – Post (3-6)
Animal Arithmetic:
1. $2 \times 2 = 4 \div 2 = 2$
2. $2 + 2 = 4 \times 5 = 20$
3. $2 \times 2 = 4 + 2 = 6$
4. $10 \div 2 = 5 + 16 = 21$
ANSWER KEY:

CALIFORNIA WILDLIFE – PRE- POST- ACTIVITIES

California Wildlife – Pre (K-1)
Circle around: Alligator Lizard, Sea Star, Rattlesnake

Circle around: Coyote, Striped Skunk, Raccoon
Square around: Alligator Lizard, Desert Tortoise, Ringneck Snake
Triangle around: Killdeer, Great Egret, Wood Duck

California Wildlife – Pre (2-3)
- 4 legs, 6 legs, 2 legs
- 2 insects, 2 mammals, 3 birds
- 26 legs

Circle around: Mountain Lion, Bobcat
Square around: Coyote, Gray Fox, Gray Wolf

California Wildlife – Pre (4-8)

California Wildlife – Post (K-3)
Bobcat → Brush Rabbit
Hare → Plants
Little Brown Bat → Mosquito
California Quail → Grass Seeds

Nighttime Animals: Great Horned Owl, Raccoon, Striped Skunk
Daytime Animals: King Snake, Honey Bee, Turkey Vulture

California Wildlife – Post (3-6)
Animal Arithmetic:
1. $8 \times 6 = 48 \div 2 = 24$
2. $2 + 3 = 5 \times 0 = 5$
3. $2 \times 4 = 8 + 4 = 12$
4. $2 \div 1 = 2 \times 2 = 4$
CREEKS AND PONDS – PRE- POST- ACTIVITIES

Creeks and Ponds – Pre (K-1)
Triangle around: American Beaver, Crayfish, Red-legged Frog, Raccoon, Mallard Duck
Rectangle around: Gray Whale, Sea Star, Pocket Gopher, Common Skate

Red-legged Frog → #4
Dragonfly → #1
Tiger Salamander → #2
Mosquito → #3

Creeks and Ponds – Pre (2-3)
1. 40
2. 26
3. True

Red-legged Frog → #4
Dragonfly → #1
Tiger Salamander → #2
Mosquito → #3

Creeks and Ponds – Pre (4-8)

Creeks and Ponds – Post (3-6)
Animal Arithmetic:
1. $4 \times 4 = 16 + 1 = 17$
2. $2 + 2 = 4 \times 4 = 16$
3. $2 \times 2 = 4 + 8 = 12$
4. $2 \div 1 = 2 \times 4 = 8$
ANSWER KEY:

FORESTS – PRE- POST- ACTIVITIES

Forests – Pre (K-1)
Coho Salmon – Creek
Gray Squirrel – Understory
Pacific Giant Salamander (adult) – Forest Floor
Raven – Canopy
Raccoon – Forest Floor

Square around: Coho Salmon, Gray Squirrel, Crayfish, Chipmunk
Animals in other habitats: 5

Forests – Pre (2-3)
1. False
2. False
3. True
4. True

1. 2 to 4 years (varies)
2. Trees and fallen debris in creeks provide shade and help keep water cool; slows streams to meander, giving necessary depth for salmon to migrate; slows water flows to make nursery pools for salmon fry to prepare for migration to ocean and is resting place for returning adults; fallen leaves attract insects which provides food for young salmon to eat.
3. Examples: Spotted owl – egg, chick, fledgling, adult; frog – egg, tadpole, frog

Forests – Pre (4-6)
Green (producers) – Sword Fern, Redwood Seedling
Blue (primary consumer) – Gray Squirrel
Red (secondary consumers) – Coho Salmon, Pacific Giant Salamander, Raven, Raccoon, Water Strider
Black (decomposer) – Fungus

Forests – Post (K-3)
Raven – Tree; Coho Salmon – Creek; Pacific Giant Salamander – Forest Floor; Water Strider – Creek; Chipmunk – Forest Floor; Red-tailed Hawk – Tree; Bat – Tree; Woodpecker – Tree; Raccoon – Forest Floor; Gray Fox – Forest Floor; Black-tailed Deer – Forest Floor; Lady Beetles – Forest Floor; Banana Slug – Forest Floor; Skunk – Forest Floor, etc.
MAMMALS – PRE- POST- ACTIVITIES

Mammals – Pre (K-1)
Diurnal Animals = 2 (sea otter, squirrel)
Nocturnal Animals = 3 (opossum, raccoon, skunk)
Crepuscular Animals = 4 (wolf, deer, jackrabbit, brush rabbit)

Bat → Moth
Beaver → Red Alder Tree
Badger → Gopher
Mountain Lion → Deer

Mammals – Pre (2-3)
1/3 = carnivores (badger, bobcat, mountain lion)
1/3 = herbivores (beaver, hare, deer)
Teeth – carnivore needs sharp teeth; herbivore needs flat grinding teeth; omnivore needs both sharp and flat teeth.

1/3 are rodents (beaver, chipmunk, mouse)
2/3 are not rodents
Number of marsupials is less than (<) number of mustelids
Opossum is the only North American marsupial

Mammals – Pre (4-8)
1. Human Being
2. Badger
3. Bat
4. Opossum

Mammals – Post (K-3)
1. Gray Fox
2. Fawn
3. Bat

Circle the mammals: raccoon, squirrel, rat, opossum, skunk, harbor seal

Mammals – Post (4-6)
Animal Arithmetic:
1. $4 \times 4 = 16 \div 2 = 8$
2. $8 + 2 = 10 \times 1 = 10$
3. $2 \times 4 = 8 + 4 = 12$
4. $4 \div 2 = 2 \times 4 = 8$
ANSWER KEY:

OCEANS – PRE- POST- ACTIVITIES

Oceans – Pre (K-1)
Marine Mammals: Gray Whale, Sea Otter, Harbor Seal

Sea Otter – kelp forest
Gray Whale – open ocean
Sea Star – tidepool
Coho Salmon – open ocean

Oceans – Pre (2-3)
Tidepool – seastar
Marine Mammals – Gray Whale, Sea Otter, Harbor Seal
Marine Mammals – 1/3
Sandy Beach – Least Sandpiper

Down:        Across:
1. Bat Ray     1. Baleen
2. Sea Star    5. Harbor Seal
4. Tide Pool   7. Sea Otter
8. Barnacle

Oceans – Pre (4-8)

Oceans – Post (K-3)
Bat Ray → Clams in Mud
Sea Star → Mussels on Rocks
Gray Whale → Krill
Harbor Seal → Fish

Circle around: Mussels, Sea Star
Triangle around: Clams
Rectangle around: Harbor Seal, Gray Whale
Square around: Mole Crab, Sandpiper

Oceans – Post (3-6)
Animal Arithmetic:
1. 4 x 2 = 8 ÷ 2 = 4
2. 2 + 7 = 9 x 2 = 18
3. 2 x 5 = 10 + 1 = 11
4. 8 ÷ 1 = 8 x 2 = 16
**ANSWER KEY:**

**RAPTORS – PRE-POST-ACTIVITIES**

**Raptors – Pre (K-1)**
Circle: Golden Eagle, Great Horned Owl, Peregrine Falcon

Great Horned Owl → Striped Skunk  
Peregrine Falcon → Pigeon  
Osprey → Salmon  
American Kestrel → Grasshopper

**Raptors – Pre (2-3)**
Nocturnal Raptors = 3  
Diurnal Raptors = 6  
Percentage = 1/3

Circle: Golden Eagle, American Kestrel, Great Horned Owl, Osprey

**Raptors – Pre (4-8)**

**Raptors – Post (3-6)**
Animal Arithmetic:
1. $2 \times 2 = 4 \div 2 = 2$
2. $2 + 2 = 4 \times 5 = 20$
3. $2 \times 2 = 4 + 2 = 6$
4. $10 \div 2 = 5 + 16 = 21$
WETLANDS – PRE- POST- ACTIVITIES

Wetlands – Pre (K-1)
Circle around: American Pelican, Wood Duck
Square around: Black-crowned Night Heron, American Bittern, Great Egret, California Clapper Rail

Coho Salmon → Egg Mass (2)
Killdeer → Eggs (3)
Skate → Mermaid’s Purse (1)

Wetlands – Pre (2-3)
Visitors: Coho Salmon, Canada Goose, Snow Goose
Permanent: American Avocet, Calif. Clapper Rail, Raccoon, Great Egret, Bittern, Black-crowned Night Heron

Brown Pelican → Anchovy
Northern Harrier → Harvest Mouse
American Avocet → Dragonfly Nymph
Great Egret → Red-legged Frog

Wetlands – Pre (3-4)
Marsh Math:
1. 1 x 3 = 3 x 6 = 18
   30 ÷ 6 = 5 YES
2. 10 x 4 = 40 ÷ 2 = 20
3. 15 x 2 = 30 + 2 = 32 x 2 = 64
4. YES – They only need 2,576 gallons

Wetlands – Post (K-3)
Mallard Duck → Duckweed
Great Egret → Fish
Clapper Rail → Sand Crab
Harvest Mouse → Pickleweed
Northern Harrier → Harvest Mouse