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.  
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 x 4 = 16 + 1 = 17
2. 2 + 2 = 4 x 4 = 16
3. 2 x 2 = 4 + 8 = 12
4. 2 ÷ 1 = 2 x 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.
ANSWER KEY:

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

<table>
<thead>
<tr>
<th>Down:</th>
<th>Across:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Bat Ray</td>
<td>1. Baleen</td>
</tr>
<tr>
<td>2. Sea Star</td>
<td>5. Harbor Seal</td>
</tr>
<tr>
<td>4. Tide Pool</td>
<td>7. Sea Otter</td>
</tr>
<tr>
<td>8. Barnacle</td>
<td></td>
</tr>
</tbody>
</table>

**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. $4 \times 2 = 8 \div 2 = 4$
2. $2 + 7 = 9 \times 2 = 18$
3. $2 \times 5 = 10 + 1 = 11$
4. $8 \div 1 = 8 \times 2 = 16$


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 x 2 = 4 ÷ 2 = 2
2. 2 + 2 = 4 x 5 = 20
3. 2 x 2 = 4 + 2 = 6
4. 10 ÷ 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

<table>
<thead>
<tr>
<th>Animal</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coho Salmon</td>
<td>Egg Mass (2)</td>
</tr>
<tr>
<td>Killdeer</td>
<td>Eggs (3)</td>
</tr>
<tr>
<td>Skate</td>
<td>Mermaid’s Purse (1)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Animal</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown Pelican</td>
<td>Anchovy</td>
</tr>
<tr>
<td>Northern Harrier</td>
<td>Harvest Mouse</td>
</tr>
<tr>
<td>American Avocet</td>
<td>Dragonfly Nymph</td>
</tr>
<tr>
<td>Great Egret</td>
<td>Red-legged Frog</td>
</tr>
</tbody>
</table>

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

Wetlands – Post (K-3)

<table>
<thead>
<tr>
<th>Animal</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mallard Duck</td>
<td>Duckweed</td>
</tr>
<tr>
<td>Great Egret</td>
<td>Fish</td>
</tr>
<tr>
<td>Clapper Rail</td>
<td>Sand Crab</td>
</tr>
<tr>
<td>Harvest Mouse</td>
<td>Pickleweed</td>
</tr>
<tr>
<td>Northern Harrier</td>
<td>Harvest Mouse</td>
</tr>
</tbody>
</table>