

# Learning Panels 1.4



**A nurturing parent or caregiver is the best teacher for promoting early learning and literacy. Talking to your child, asking questions is so important in a child's development.**



## **Nurturing curiosity and the love of learning.**

A close, emotional bond with a parent or caregiver in a child's early years, helps a child grow both emotionally and physically, which in turn provides a stable and open foundation for a child's learning. Parents and caregivers are the best first teachers in a baby's life to begin that journey of curiosity, expression and learning.

Our Learning Panels are designed to encourage a parent or caregiver to talk and engage with their child, to spark conversations and curiosity, whether through the questions posed on our Learning Panels or characters asking for a story. Designed to spark imagination and spur children towards wonder.



A child walking into a library is presented with endless learning opportunities. He or she can flip through a picture book about the planets, consult a history book on early America, or study the glossy pages of a book about underwater sea creatures. These are traditional purposes for which the library was created, but as they adapt to the changing needs of their communities, libraries are faced with the task of engaging children with topics and activities that go beyond the standard story-time. Libraries today are teaching parents and caregivers how to engage with their child to best encourage early literacy. "Extensive research strongly indicates that parent-child interactions greatly enhance a child's pre-literacy skills."<sup>1</sup>

### The First 5 Years

A child's brain development during the first five years is profound. Research shows that a child's early literacy skills begin developing at birth. Daily interaction with a baby or young child that encourages talking, reading, playing and singing is enormously important.

PLA/ALA and ALSC's\* Every Child Ready to Read parent education initiative, encourages parents to incorporate five practices of early literacy with their child: **talking, singing, reading, writing and playing.** It also suggests that the public library is a perfect place to offer such assistance in this important developmental area. The library provides a safe, clean, nurturing and inquisitive environment, where discovery, play, problem-solving, conceptual inquiry and motor skills can all be expressed. We designed and developed TMC LearnPLAY products with these attributes.

<sup>1</sup>Nurturing Knowledge Neuman and Roskos (2007)

\*Public Library Association, American Library Association and Association for Library Service for Children

Dr. Susan B. Neuman, Professor of Education at New York University, a leading educator and researcher in the field of early literacy, explains how “unconstrained” skills such as vocabulary building, are tools a child continues to use throughout their life. With this in mind, our Learning Panels using these “unconstrained” learning techniques to expand a child’s understanding of word meanings and concepts. Inquiry, asking questions leads to the formation of new and complex connections in a child’s mind. This type of learning has a cumulative effect. Studies indicate that children learn by doing, which is why we integrate interactive components in our LearnPLAY product line.

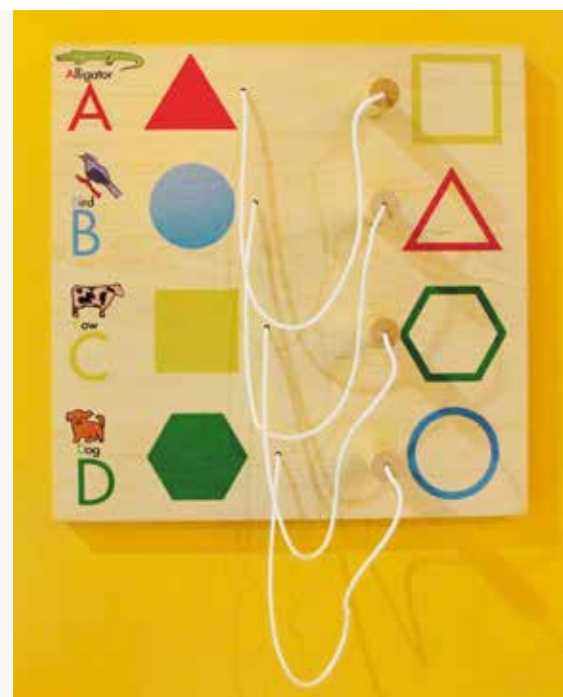
### Constrained Learning

“Constrained Learning” (Letter Recognition, Shape Recognition, Number Recognition) is an important part of literacy but its uses are finite. We have developed a few Learning Panels for such learning with examples shown below. Even our “constrained” panels can invite discussion. For instance the alligator, bird, cow and dog on the panel below, can all be woven into a story by a young child. Or a parent can use them to ask questions, such as, “Which one of these creatures doesn’t have 4 legs? Can you name other animals with 4 legs? How would you walk on 4 legs?”

### Unconstrained Learning Reading Comprehension and Life-long Learning

Dr. Susan B. Neuman states “because comprehension of text—the very purpose of reading—depends not only on a small set of procedural skills, but on a great infusion of knowledge: Knowledge of words and their meanings, the concepts that connect them, and the ability to think critically about what one reads. Serving as a foundation for literacy learning, it is knowledge, not the learning of the letter ‘n,’ that accelerates children’s achievement.”<sup>2</sup> Even in infancy, these important connections form: in language, in the understanding of our surroundings. The connections that are formed provide rich, contextual foundations that sustain us throughout our life. TMCkids is passionate about developing and cultivating learning areas where such fertile ground begins, develops and grows.

Our philosophy is to encourage children to question. For example, one may show a child a row of houses and suggest different ways to look at the picture. As a parent or caregiver reads to the child, they can ask questions about what they see in the panel, look for shapes in the houses, house size relationships, or ask more probing questions such as, “Which house would you like to live in? Why?” A narrative begins in the young child’s mind. This type of parent-child inquiry can easily start at the library, and continue with questions about the stores or buildings the child might see on a walk or drive home from the library. A conversation begins. Vocabulary and background knowledge are born.



At left:  
1. Counting Trees  
2. Shape, color and phonetical awareness.

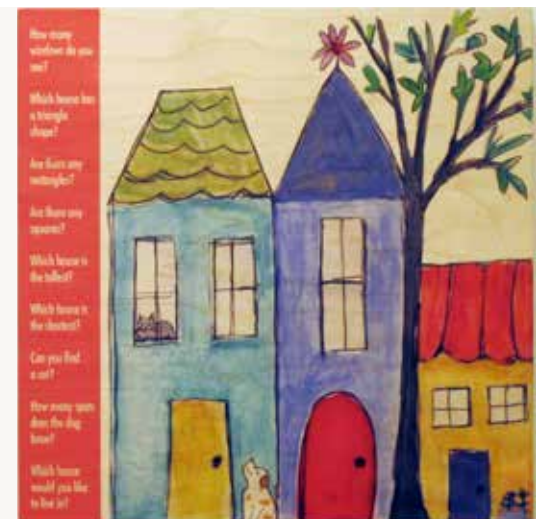
### In the Neighborhood

Looking at shapes within a picture.  
Size relationships big-small counting.  
Make up a story about the house you would like to live in.  
Pets—dog/cat offers a common storytelling narrative

#### Other possible inquiries:

- Can you find all of the flowers in this picture?
- Can you find the red door?
- Is the tree the tallest in the picture?
- Which door looks like an upside down U?
- What do you suppose the dog is looking at?

- How many windows do you see?
- Which house has a triangle shape?
- Are there any rectangles?
- Are there any squares?
- Which house is the tallest?
- Which house is the shortest?
- Can you find a cat?
- How many spots does the dog have?
- Which house would you like to live in?



<sup>2</sup>Overcoming the Knowledge Gap: The Case for Content-rich Instruction Dr. Susan B. Neuman



**Dr. Susan B. Neuman on  
Comprehension**

“Perhaps the true path to literacy is not procedural skills that stand out in the crowd, but the knowledge of content and concept that underlie its foundation. In this case, our efforts would be to get children to think, grapple with ideas, to experience the ‘ah-ah,’ the ‘flow’ that comes when we achieve something meaningful against resistance. In this scenario, knowledge is the headline star with conventional literacy skills, the supporting cast members.”

*Lessons for My Mother: Reflections on  
the National Early Literacy Panel Report*

According to Harvard University’s Center on the Developing Child, “In the first few years of life, more than 1 million new neural connections are formed every second....through the interaction of genes and a baby’s environment and experiences, especially “serve and return” interaction with adult....These are the connections that build brain architecture – the foundation upon which all later learning, behavior, and health depend.”

Center on the Developing Child  
Harvard University



### **Nature+future stewards**

TMC LearnPLAY products are innately expressive. We work in wood for its warm, tactile quality. Holding a paddle from our Discovery Box or a wood peg on our Learning Panels offers a connection to something organic and natural. Sitting under one of our trees, provides a sense of richness and atmosphere. Wood is timeless and has a presence that we feel is important to life.

We believe in non-electronic pedagogy. You will not find screens for swiping or computer technology in our product offerings. We feel technology diminishes the present and human connection.





"I think these Learning Panels are beautifully done, both aesthetically pleasing and engaging for children. They represent a perfect compliment to activities that emphasize informational text in libraries and early literacy settings. I believe they will offer hours of fun and interactions among children and their friends and adult companions, and will be very helpful in extending children's natural instinct to learn about their world." —**Dr. Susan B. Neuman**



Susan B. Neuman is a Professor in Teaching and Learning at New York University specializing in early literacy development. Previously, she has served as the U.S. Assistant Secretary for Elementary and Secondary Education. In her role as Assistant Secretary, she established the Early Reading First program, developed the Early Childhood Educator Professional Development Program and was responsible for all activities in Title I of the Elementary and Secondary Act. She has served on the IRA Board of Directors (2001-2003), and other numerous boards of non-profit organizations. She is currently the Editor of Reading Research Quarterly, the most prestigious journal in reading research. Her research and teaching interests include early childhood policy, curriculum, and early reading instruction, Pre-K - grade 3 for children who live in poverty. Dr. Neuman was also commissioned by PLA/ALA to evaluate the first edition of Every Child Ready to Read @ your library [ECRR].

**Talking...  
asking questions...  
reading...and  
curiosity abounds!**

**Easy to interchange to create flexible spaces**

**Thoughtful content that relates to nature, gardening,  
water,weather, mathematical literacy and more!**

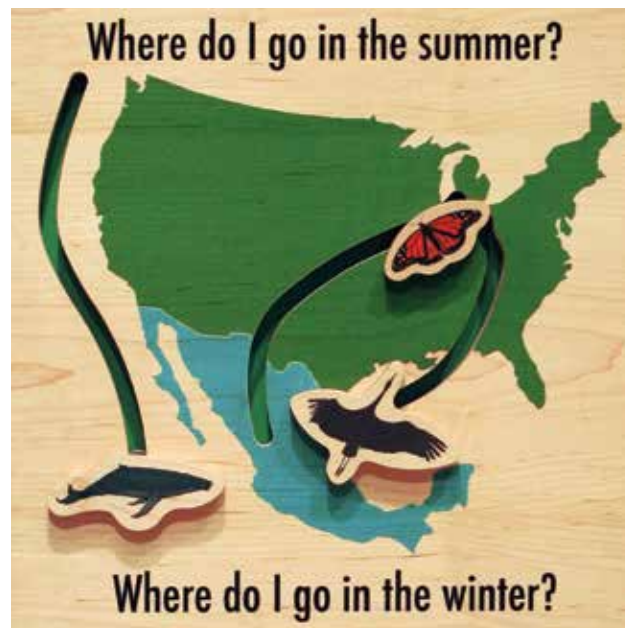
The more a child is talked to, the more understanding he/she will have of their world. Vocabulary will improve and the child will begin to relate to his/her environment in a deeper and more inquisitive way. When a parent or caregiver poses questions to their little one they will find out all sorts of interesting things. These Learning Panels are open-ended, and allow a parent or caregiver the opportunity to expand upon with storytelling and questions. We provide a supplemental Field Guide to offer further questions a parent or caregiver might ask a child. The conversation can go on in all different directions as you will see. Here are a few ideas that come to mind and by all means, just a beginning...



**Concept**

The Migration Panel poses the question, "Where do I go in the summer and Where do I go in the winter?" The child sees the map of the United States and Mexico. He or she can move the monarch butterfly, sandhill crane or whale up and down, tracing their routes. What happens in the winter in the north? Why would a butterfly travel south in the winter? What starts to emerge through inquiry and discovery is the concept of migration. Learning by doing and questioning, a narrative begins. This kind of approach is key to our Learning Panel philosophy. Libraries may also augment the concept of migration with books that further illustrate the magical voyage of some living creatures. (Please see the following page for more interactive elements to this particular Learning Panel).





## Migration

Model: APC1616-MG01  
16" X 16" Sliding Style

AGES: BABIES THROUGH 3RD GRADE  
STEM

### Field Guide

#### An introduction to Migration

He or she can move the monarch butterfly, sandhill crane and whale up and down, tracing their migratory routes. Through inquiry, discovery and learning-by-doing, the child begins to understand the concept of migration.

- What happens in the winter in the north?
- Why would a butterfly or crane travel south in the winter?
- What other living creatures make a magical voyage called migration?
- Geography - what countries do you see? What ocean does the whale swim in?

#### PRESCHOOL

- Can they name the creatures? [whale, crane/bird and butterfly]
- Count the creatures.
- Which one is not like the others? Whale swims; the other creatures fly.
- Ask about naming the colors they see on the panel.
- Ask about other adaptations to seasons.

#### BABIES

- While baby moves the creatures up and down, parents say the words [up and down] to reinforce the concept. Movement also helps with motor skills and coordination.



## Match the Leaf to the Seed

Model: APC1616-LS01  
16" X 16" Peg Style

AGES: BABIES THROUGH 3RD GRADE  
STEM

### Field Guide

#### An introduction to Botany

What plant has leaves?

What plant has pine needles?

What do plants need to grow?

Do you have any of these leaves in your yard?

What time of year are leaves green?

Are pine trees green all year round?

*Types of trees:*

**Deciduous trees** lose their leaves in the fall.

- Which ones lose their leaves? Maple [top leaf] and Oak [middle leaf]

**Conifer trees** have pine cones and needles. Pine tree [bottom]

Maple leaf matches to maple seed.

- Have you seen these seeds in trees in your yard or neighborhood?
- The maple seed falls from the tree like a whirling helicopter.

Oak leaf matches to the acorn.

- The acorn is the seed of an oak tree.

- What animals like to eat acorns? [squirrels, wild turkey, and deer].

Pine needle branch matches to the pine cone.

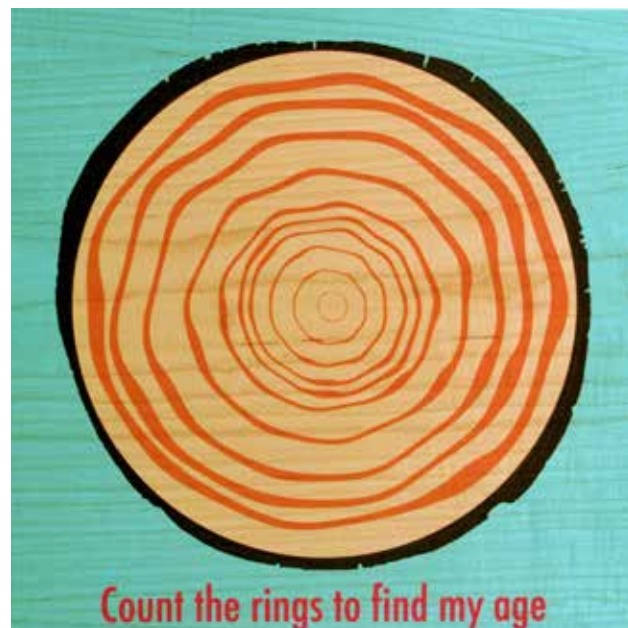
- Pine cones are the seeds for growing more pine trees.

#### PRESCHOOL

- Count the leaves. Count the seeds.

#### BABIES

- Putting the peg in the hole helps with motor skills and coordination.
- Sound out the word leaf with green. Green leaf.



**Tree Rings**  
 Model: APC1616-TR01  
 16" X 16" Flat Style

AGES: BABIES THROUGH 3RD GRADE  
 STEM

### Field Guide

#### Concept of counting and botany

Counting game as well as an introduction to how a tree grows.

#### Questions to ask:

- Do you know what these tree rings tell us?
- The age of the tree: a new ring grows each year.
- Do you know why some rings are wide and some are narrow?
- Wider rings show a good growing season for the tree [rain and cool climate]. Studying tree growth also helps in understanding climate change over a span of years.

#### Other questions:

- What shape do the tree rings make?
- Can you think of other ring shapes?
  - Bicycle tire
  - Cheerios
  - Donut
- Can you pair words starting with "R"? Example: round rings, red rings, etc.
- How do you keep track of your age?



**The Bird Count**  
 Model: APC1616-BC01  
 16" X 16" Peg Style

AGES: BABIES THROUGH KINDERGARTEN  
 STEM

### Field Guide

#### Concept of counting and number recognition

Count the birds and match the number to the bird count.

#### Questions to ask:

- What colors do you see in the birds?
- Which bird box has the least?
- Which bird box has the most?
- Can you think of words that begin with the letter "B"?
- Can you think of words that rhyme with the letter "B"?
- How many birds do you see in total?

#### BABIES

- Sound
- Counting
- Motor skills for putting the peg in the hole.



**My Habitat**  
 Model: APC1616-MH01  
 16" X 16" Sliding Style

AGES: BABIES THROUGH KINDERGARTEN  
 STEM

### Field Guide

#### Introducing the concept of Habitat

An area of environment where the animal lives.

#### Questions to ask:

- Where do the bird and squirrel live?
- Where does the rabbit live?
- How are the rabbit and squirrel the same?
- How is the woodpecker different?
- Can you think of other types of habitats?
- How many creatures do you see?
- Would you like to live in a tree? Can you think of other animals that live in trees?
- What color are the leaves, squirrel, rabbit and woodpecker?
- Have you seen any in your yard recently?

#### BABIES

- Sliding the animals back and forth, up and down.
- Make a sound of a squirrel while moving the squirrel.



**Count the Trees**  
 Model: APC1616-HT01  
 16" X 16" Flat Style

AGES: BABIES THROUGH KINDERGARTEN  
 STEM

### Field Guide

#### Concept of counting

#### Questions to ask:

- Which trees are higher?
- Which trees are lower?
- What color are the trees?
- What color are the birds?
- Can you find any rectangles in this picture?
- Can you find any ovals?
- Can you make up a song these birds might sing?

#### BABIES

- Which one is the tree? Point to the tree.
- Which one is the bird? Point to the bird.



**Butterfly Collection**  
 Model Number: APC1616-BT01  
 16" X 16" Peg Style

AGES: BABIES THROUGH KINDERGARTEN  
 STEM

**Field Guide**

**Concept of a collection**

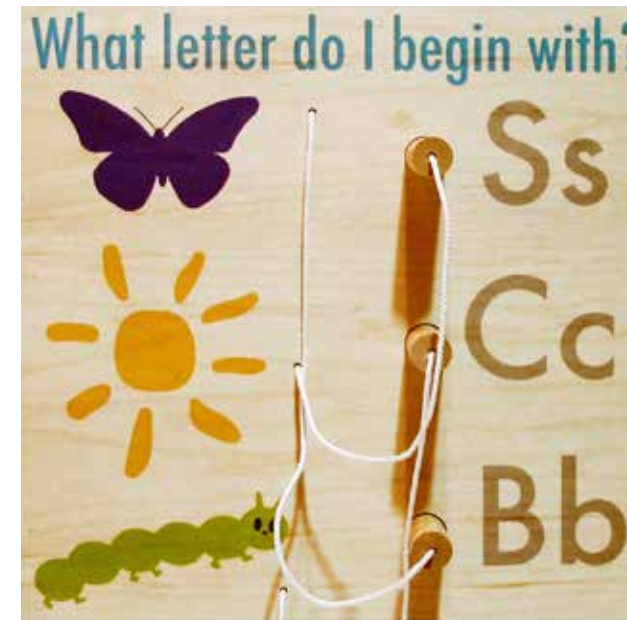
A counting game using butterflies introduces the concept of collection. A group of similar objects.

**Questions to ask:**

- What are some other collections? Example: stamp, coin, leaf, book
- What color are the butterflies?
- How many butterflies do you see in total?
- Are you the same age as any of these numbers?
- Which butterfly groupings makes a square?
- Which one looks like an upside down "L"?
- If the butterfly wanted to camouflage itself what color flower would it land on?
- What letter does butterfly begin with?

**BABIES**

- Point to the butterfly and count.
- Motor skills for putting the pegs in the hole.



**What Letter Do I Begin With?**  
 Model Number: APC1616-LB01  
 16" X 16" Peg Style

AGES: BABIES THROUGH 2nd GRADE  
 STEM

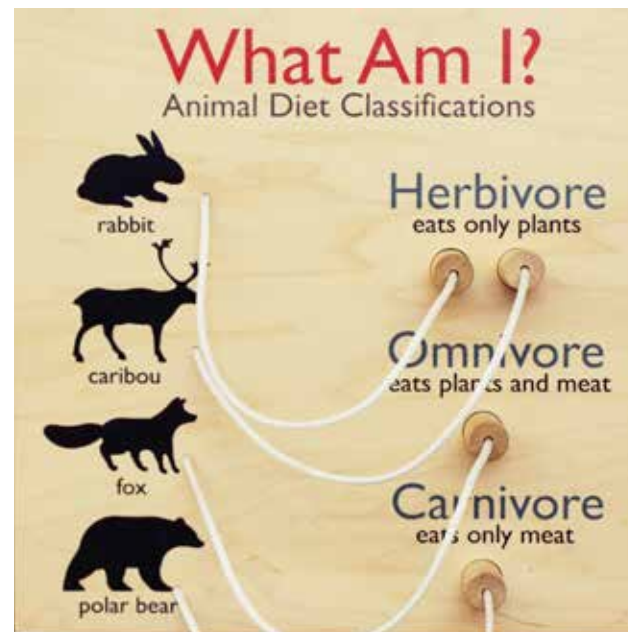
**Field Guide**

**Phonetical awareness**

Developing familiarity with upper and lower case letters. Sounding out the creature and matching the letter.

**Questions to ask:**

- Can you count how many creatures there are?
- Which ones are similar [butterfly and caterpillar]?
- What colors are the sun, butterfly and caterpillar?
- Which one can fly?
- Can you think of other words that begin with "S"?
- Can you think of other words that begin with "C"?
- Can you think of other words that begin with "B"?
- What does the caterpillar turn into?
- Pretend it's a sunny day, can you tell a story about the caterpillar and the butterfly?



**Animal Diet Classifications**  
Model Number: APC1616-AD01  
16" X 16" Peg Style

AGES: PRESCHOOL THROUGH 3RD GRADE  
STEM

### Field Guide

#### Animal Diet Classifications

This panel exposes the child to the terms: herbivore, omnivore and carnivore.

#### Questions to ask:

- What is your diet classification?
- Which of these animals live near you?
- Can you name other animals that are herbivores?
- Can you name other animals that are omnivores?
- Can you name other animals that are carnivores?
- In what ways are they the same? [four-legged mammals]
- All the terms end in [suffix] -vore, which comes from a Latin word *vorare* - to eat.

#### PRESCHOOL

- Count the animals.
- Name the letter they begin with and think of other words that begin with that letter.
- Which one has antlers?
- Which one has a tail about as big as his/her body?
- Motor skills for putting the pegs in the hole.



**Arctic Camouflage**  
Model Number: APC1616-AC01  
16" X 16" Flat Style

AGES: PRESCHOOL THROUGH 3RD GRADE  
STEM

### Field Guide

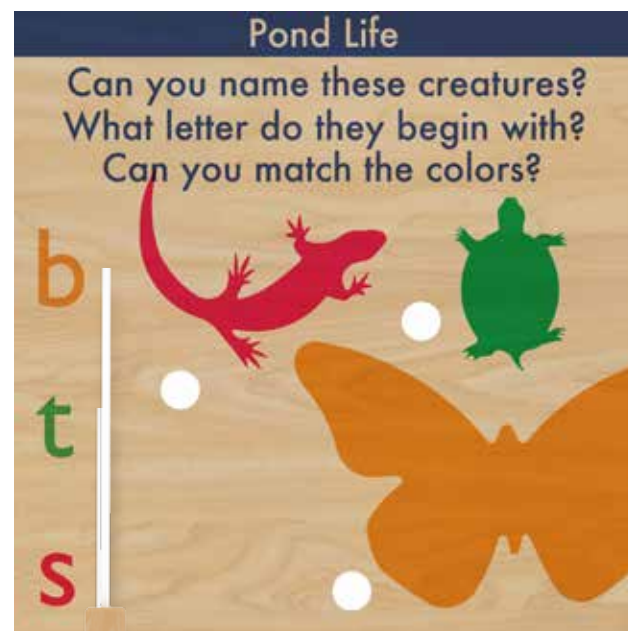
Introduces the concept of camouflage, predator and geography

#### Questions to ask:

- Camouflage - the animal's fur turns color according to its environment.
  - In the winter season there is snow. These arctic animals turn white, so they blend in with the habitat.
  - Predators - the wolf is a predator to the fox, Arctic hare and caribou.
  - Geography - the map provides the animals' location.
- How cold is the arctic in the winter?

#### PRESCHOOL

- Count the animals.
- Can you find words that rhyme with fox?
- How do you adapt to winter?
- How do the animals in your neighborhood adapt to winter?



**Pond Life**  
APC1616-PL01  
16" X 16" Peg Style

AGES: PRESCHOOL THROUGH 1st GRADE  
STEM

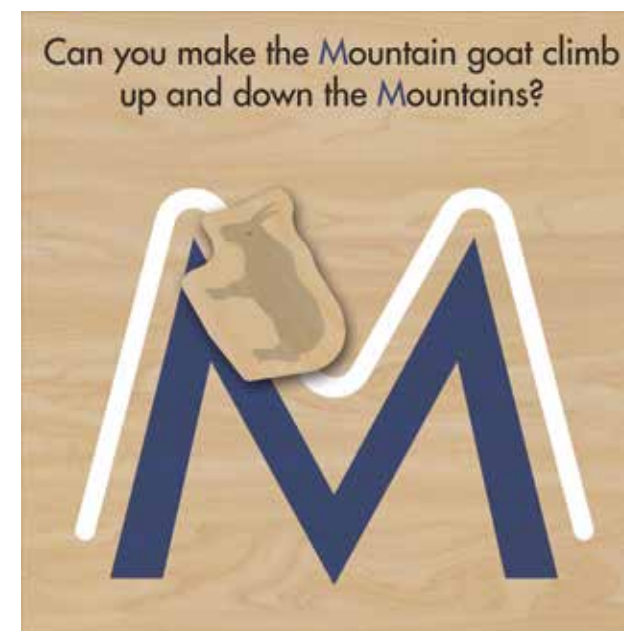
### Field Guide

Introduces the concept of phonetics and matching colors

- Butterfly
- Turtle
- Salamander

#### Questions to ask:

- Can you think of other creatures you might see by a pond?
- How many creatures do you see?
- Which ones can fly?
- Which ones are insects?
- Which one is an amphibian?
- Which one is a reptile?
- Which ones have legs?
- Which one has a shell?
- Can you think of a word that begins with the letter to describe the creature: Example: *Silly salamander* or *beautiful butterfly*
- Does your name begin with any of these letters?



**Mountain Goat Climbs a Mountain**  
APC1616-GM01  
16" X 16" Slider Style

AGES: PRESCHOOL THROUGH 1st GRADE  
STEM

### Field Guide

Introduces the concept of up and down and the letter M

#### Questions to ask:

- Can you find a blue M? How many do you see?
- What is the M when turned upside down?
- Do you know why mountain goats can climb steep mountains?
- Can you think of other animals that climb mountains?
- Would you like to climb a mountain?
- Did you know Mountain Goats are herbivores and like to eat grasses, ferns and lichen?
- Can you think of any animals that begin with the letter M?



**Buzzing Bees**  
APC1616-BE01  
16" X 16" Slider Style

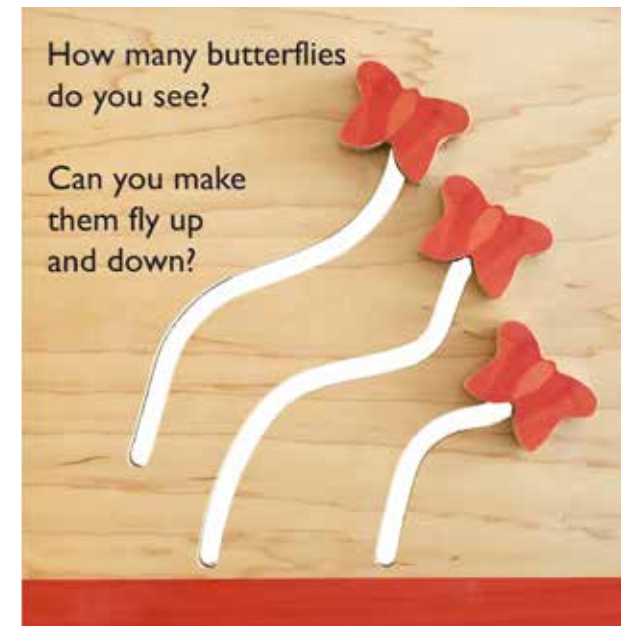
AGES: BABIES THROUGH 1st GRADE  
STEM

### Field Guide

Concept of seeing visual differences between like objects, counting and understanding the idea of landing on top of something

#### Questions to ask:

- Can you make the sound of a buzzing bee?
- How many bees do you see?
- Do the bees fly up and down?
- Do you know why bees like flowers? [Flowers provide nectar which is food for a bee. Bees also collect pollen on their bodies when they land on the flowers which helps the flowers pollinate as bees move from flower to flower.]
- How many flowers do you see?
- Do you like flowers?
- Can you think of a word that begins with the letter B to describe the Bee: Example: *Bashful Bee, Buzzing Bees*



**Butterflies in Flight**  
APC1616-BF01  
16" X 16" Slider Style

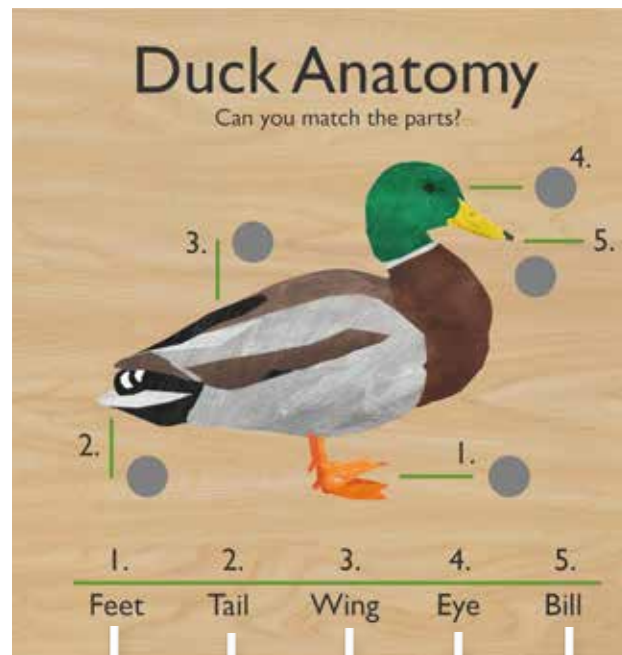
AGES: BABIES THROUGH 1st GRADE

### Field Guide

Concept of movement, direction and counting

#### Questions to ask:

- What color are the butterflies?
- Do you know other creatures that fly?
- Have you seen a butterfly?
- Butterflies like to eat the nectar from flowers.
- Do you see butterflies in the winter? Why?



Duck Anatomy  
APC1616-DA01  
16" X 16" Peg Style

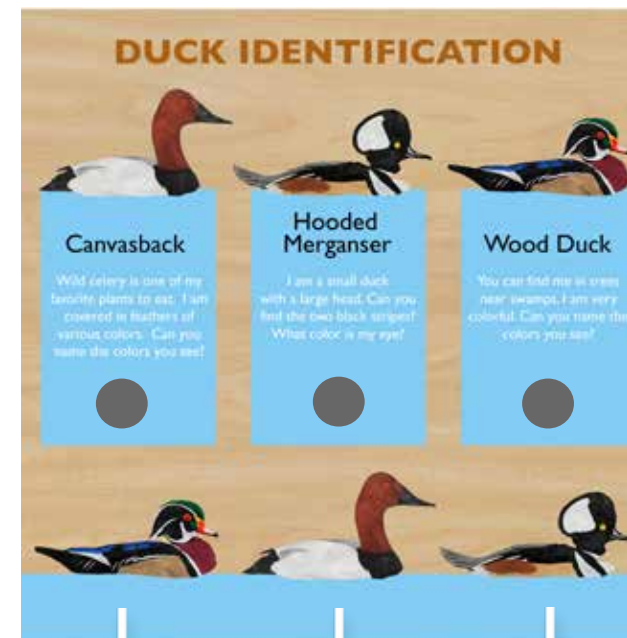
AGES: BABIES THROUGH 1st GRADE  
STEM

### Guide

Introduces fish anatomy and number recognition

#### Questions to ask:

- Can you point to your eye and nose?
- Where does a duck live?
- What do you suppose he uses his wings and bill for?
- What color are the duck's legs and feet?
- Would you like to swim with this duck?
- Can you think of any creatures that begins with D?
- Can you think of a word that begins with the letter D to describe the Duck? Example: *Darling*, *Dazzling*, *Delightful Duck*



Duck Identification  
APC1616-DK01  
16" X 16" Peg Style

AGES: BABIES THROUGH 1st GRADE

### Guide

Concept of teaching about ducks and matching

#### Questions to ask:

- Where do ducks live, on land or water?
- What else has feathers?
- Which duck has a longer neck?
- Which duck has a bigger head?
- Which duck has yellow eyes?
- Which duck has red eyes?



## How many Monarch Butterflies do you see?



Monarch Butterfly  
APC1616-MO01  
16" X 16" Flat Style

AGES: BABIES THROUGH 1st GRADE  
STEM

### Guide

Introduces counting

#### Questions to ask:

- What colors are in the Monarch Butterfly?
- How many Milkweed plants do you see?
- What color are the flowers?
- Do you know other creatures with wings?
- Have you ever seen a Monarch?
- Did you know Monarch Butterflies migrate from Mexico to northern states in the US?



Little Naturalist  
APC1616-LN01  
16" X 16" Slider Style

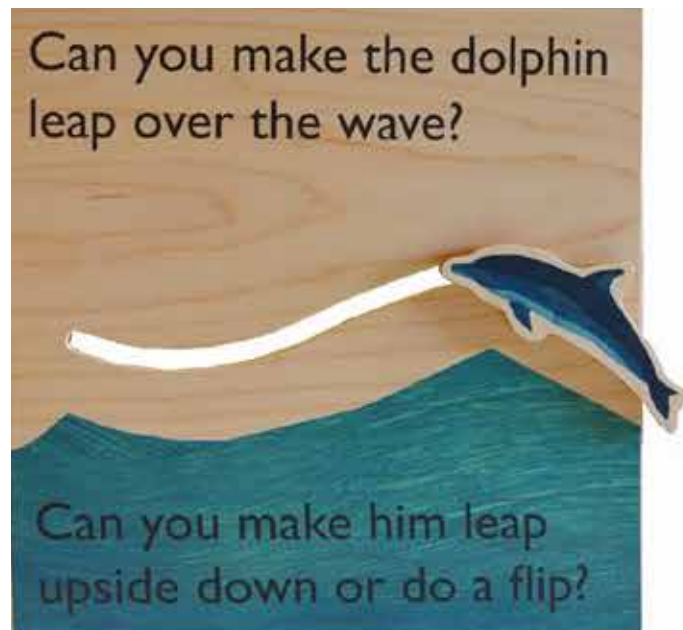
AGES: BABIES

### Guide

Concept of movement and coordination

#### Questions to ask:

- Where is the acorn?
- Can you have the pony go up and down the hill?
- What is the seagull swimming in?
- Can you make the bunny hop up and down?



**Dolphin Dip**  
 APC1616-DD01  
 16" X 16" Slider Style

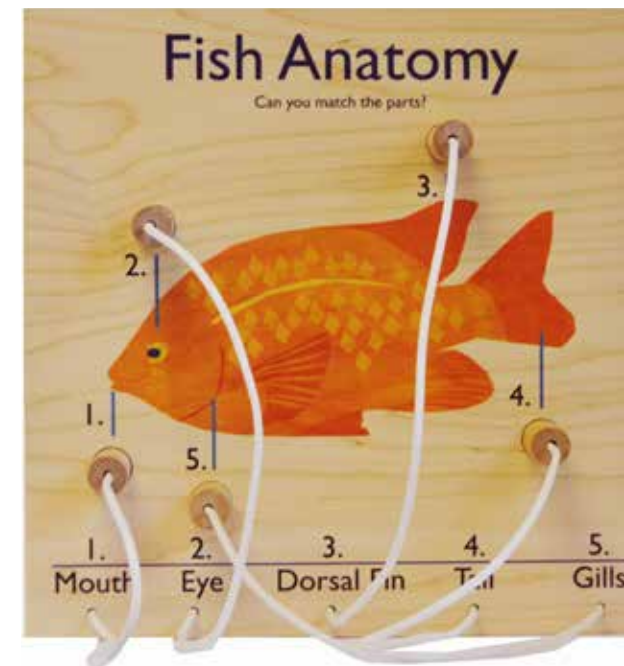
AGES: BABIES THROUGH 1st GRADE

### Field Guide

Concept of over and under and upside down

#### Questions to ask:

- How many dolphins do you see?
- Dolphins can use their bodies to flip out of the water. Can you?
- Do you know what the dolphin's tail and flippers are used for?
- Do you know why my underside is lighter? To prevent predators from seeing me as I swim in the ocean.
- Does the water look calm?
- What else do you suppose lives in the ocean?
- Do you like swimming in the ocean?
- Can you think of a word that begins with the letter D to describe the Dolphin: Example: *Diving Dolphin, Daring Dolphin*



**Fish Anatomy**  
 APC1616-FS01  
 16" X 16" Peg Style

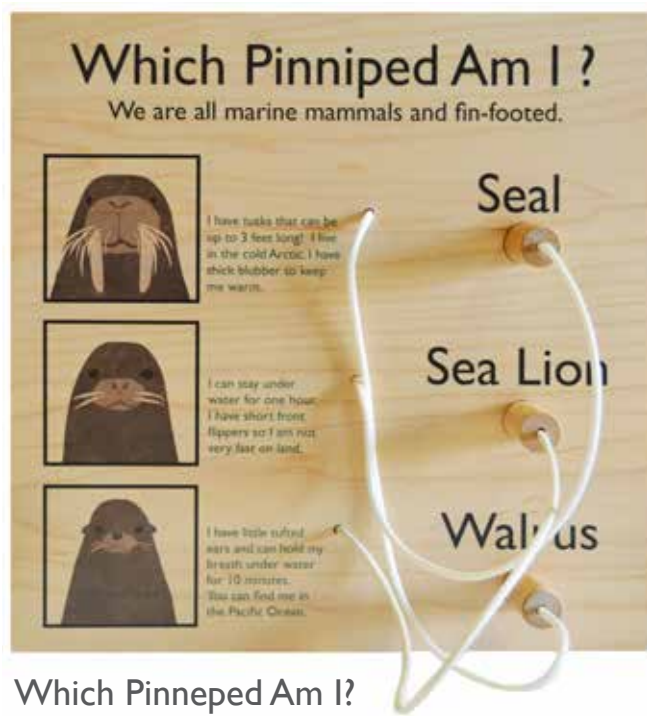
AGES: PRESCHOOL THROUGH 1st GRADE  
 STEM

### Field Guide

Introduces fish anatomy and number recognition

#### Questions to ask:

- What color is the fish?
- Can you point to your eye and nose?
- Where does a fish live?
- Can a fish live on land?
- What do you suppose he uses his fins and tail for?
- What do the gills do?
- Would you like to swim with this fish?
- Can you think of any creatures that begins with F?
- Can you think of a word that begins with the letter F to describe the Fish: Example: *Fast Fish, Fat Fish*



**Which Pinniped Am I?**  
APC1616-PN01  
16" X 16" Peg Style

AGES: PRESCHOOL THROUGH 1st GRADE  
STEM

**Field Guide**

Understanding and identifying the differences in Pinnipeds - marine fin-footed mammals

**Questions to ask:**

- What do all of these mammals have in common?
- Can you sound like a Sea Lion or Seal?
- Do you have ears?
- Can you think of other mammals that live in the ocean?
- Can you think of other mammals that can live in very cold habitats?



**Fish in Water**  
APC1616-WT01  
16" X 16" Flat Style

AGES: BABIES THROUGH 1st GRADE  
STEM

**Field Guide**

Observing fish swimming in the water

**Questions to ask:**

- How many fish do you see?
- What color are they?
- What color are their eyes?
- Do they look like the color of the water? Camouflaged?
- Can you see the sunlight reflecting in the water?
- What does the bottom of the ocean look like?
- Would you like to swim with these fish?
- Are the fish about the size of your hand?
- Can you think of a story about these fish? What are their names?



Seagulls Perched on a Pier  
APC1616-SE01  
16" X 16" Flat Style

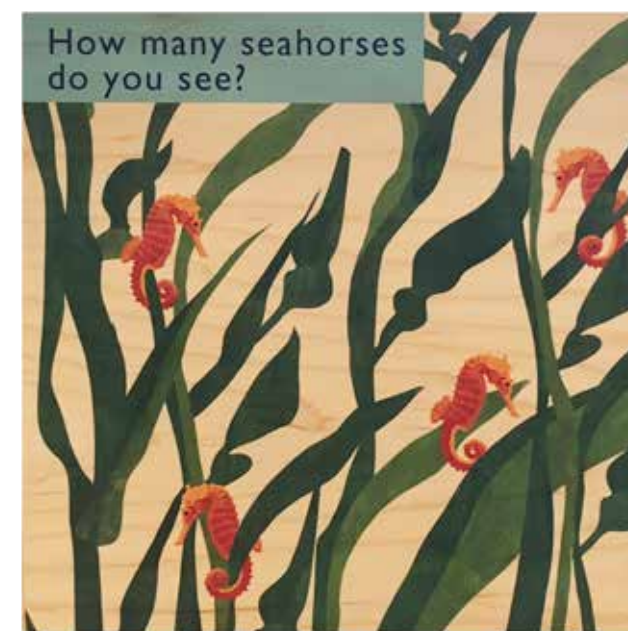
AGES: PRESCHOOL THROUGH 1st GRADE  
STEM

### Field Guide

Introducing the concept of high and low, counting and discovering visual differences in a picture

#### Questions to ask:

- Can you name the seagulls?
- Can you think of other birds that live on the water?
- Can you perch yourself like you are standing on a pier?
- Have you seen seagulls resting on piers?
- What do you suppose they are thinking about?



Spot the Seahorses  
APC1616-SH01  
16" X 16" Flat Style

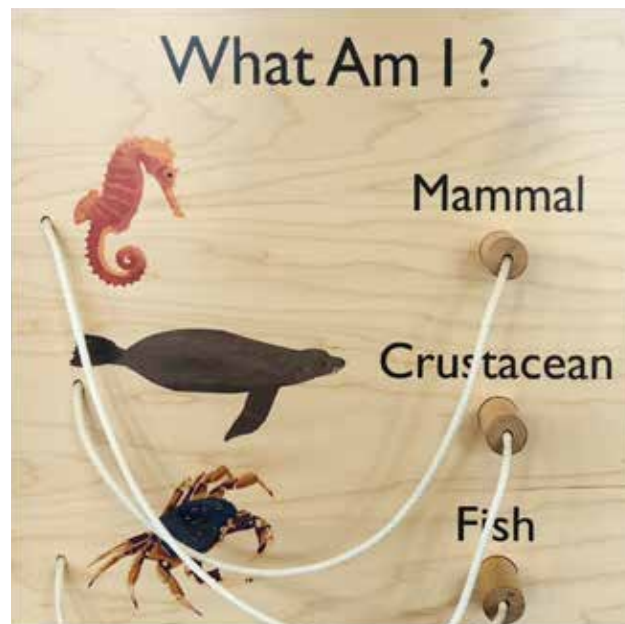
AGES: PRESCHOOL THROUGH 1st GRADE  
STEM

### Field Guide

Concept of counting

#### Questions to ask:

- Where do seahorses live?
- How are the seahorses holding on to the kelp?
- What color are the seahorses?
- Can you name them?
- Do you know why we call them seahorses?



**What Am I? Sea Creatures**  
 APC1616-WS01  
 16" X 16" Peg Style

AGES: PRESCHOOL THROUGH 1st GRADE  
 STEM

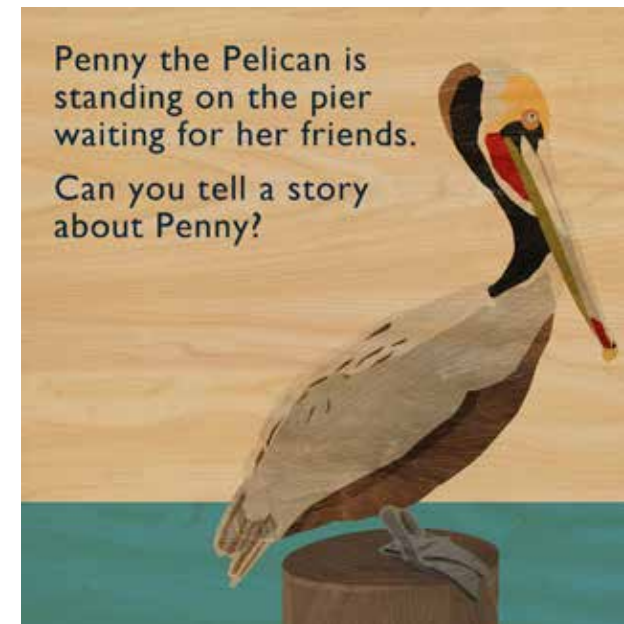
### Field Guide

#### Animal Classification

This panel exposes a child to the terms Mammal, Crustacean and Fish.

#### Questions to ask:

- Can you name other mammals that live in the ocean?
- Can you name other crustaceans that live in the ocean?
- Can you name other fish that live in the ocean?
- Which one is your favorite?
- Which one has whiskers?
- Which one has a tail?
- Which one has flippers?



**Penny the Pelican**  
 APC1616-PP01  
 16" X 16" Flat Style

AGES: BABIES THROUGH 1st GRADE  
 STEM

### Field Guide

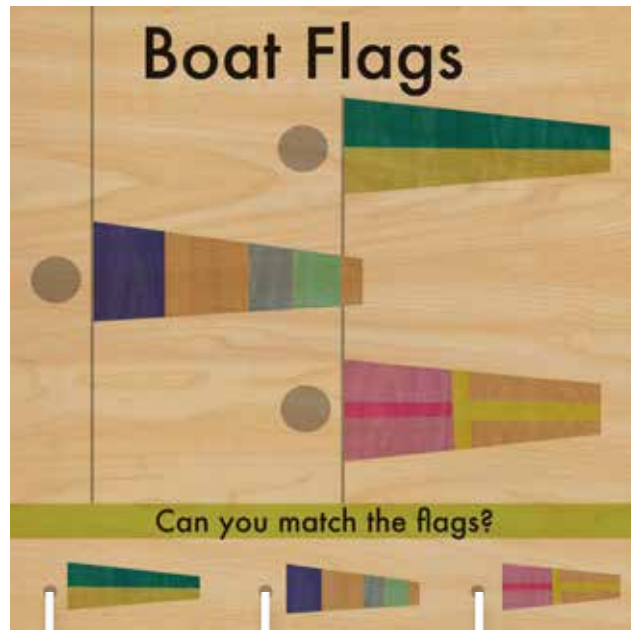
#### Telling a story

This panel offers an opportunity to make up a story about Penny the Pelican. Encourages observation, imagination and building a narrative.

#### Questions to ask:

After the story consider asking questions such as:

- Does Penny have big feet?
- Can you point to Penny's eye, bill, and tail?
- Can you think of other birds that live in the ocean?
- Can you think of a word that describes a pelican that begins with the letter P? Example: *Pretty Penny, Persnickety Penny*



Match the Flags  
APC1616-MF01  
16" X 16" Peg Style

AGES: PRESCHOOL THROUGH 1st GRADE  
STEM

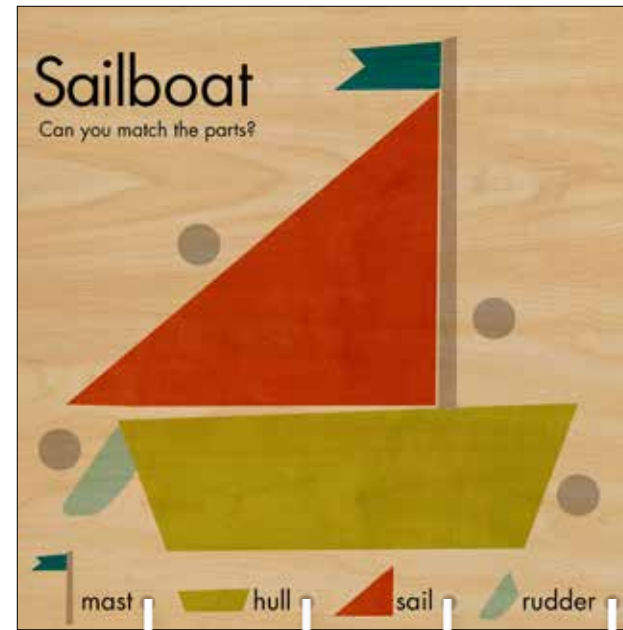


Field Guide

Concept of matching flag color and pattern

Questions to ask:

- Which flags have the color blue?
- Which flags have the color green?
- Which flag has the color pink?
- How many flags do you see?
- Which flag is your favorite?



A Sailboat  
APC1616-SB01  
16" X 16" Peg Style

AGES: PRESCHOOL THROUGH 1st GRADE  
STEM

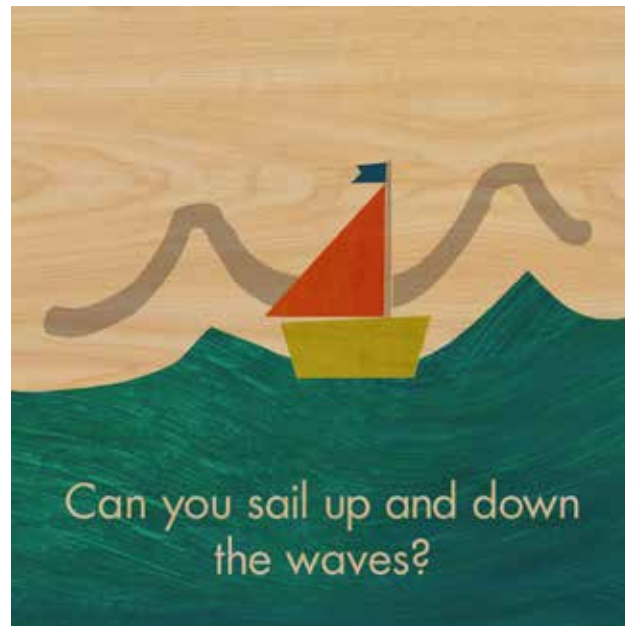


Field Guide

Concept of matching shapes through a boat's parts

Questions to ask:

- What color is the flag on the mast?
- What color is the hull?
- What color is the sail?
- What color is the rudder?
- Have you been on a sailboat?
- What other boats have you been on?



Up and Down the Waves  
APC1616-WV01  
16" X 16" Slider Style

AGES: BABIES THROUGH 1st GRADE

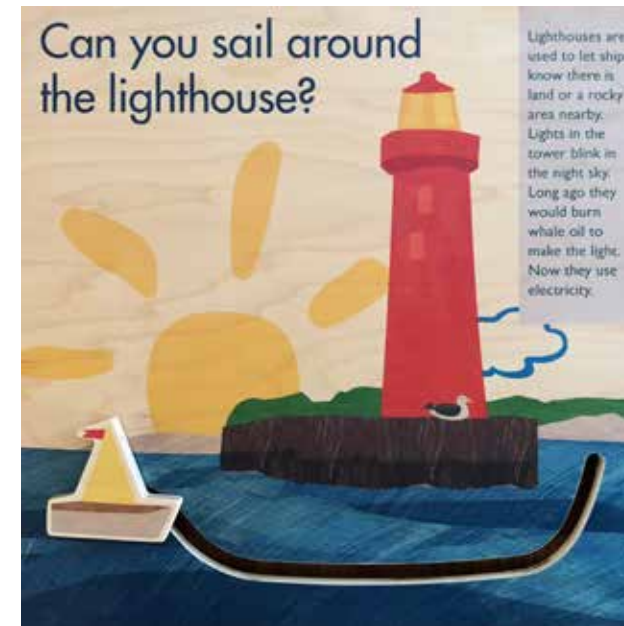
### Field Guide

#### Concept of movement and direction

Up and down, forward and backward.

#### Questions to ask:

- Does the water look calm?
- What letter does boat begin with?
- Can you think of other words that rhyme with boat?
- Would you like to sail on the open water with big waves?



The Red Lighthouse  
APC1616-RL01  
16" X 16" Slider Style

AGES: PRESCHOOL THROUGH 1st GRADE

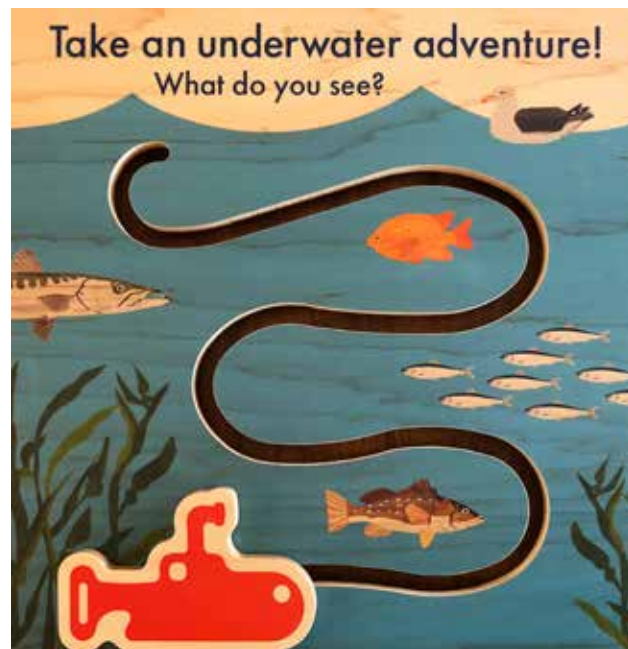
### Field Guide

#### Concept of movement and direction

Concept about moving around an object and teaching what lighthouses are used for.

#### Questions to ask:

- If you were sailing on the boat what would you see on the pier?
- What color is the lighthouse?
- What color is the water?
- Can you point to the sun and cloud?
- Would you like to sail on the boat?
- What do you suppose lives in the water?



**Submarine Adventures**  
APC1616-SA01  
16" X 16" Slider Style

AGES: PRESCHOOL THROUGH 1st GRADE

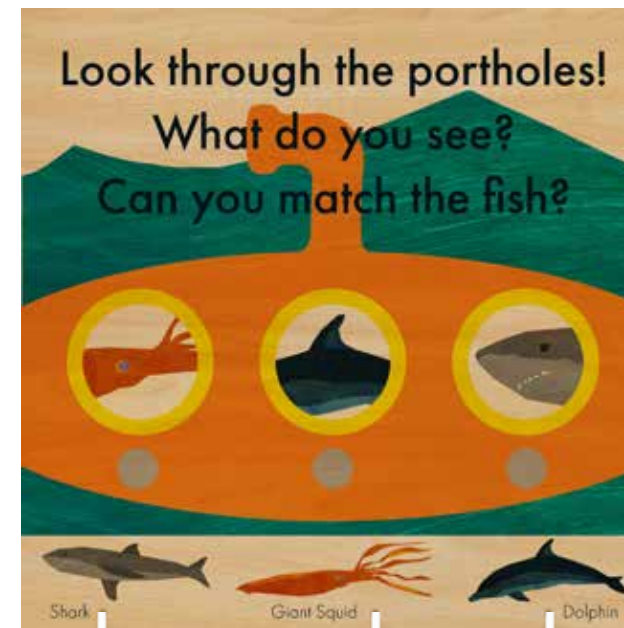
### Field Guide

#### Concept of movement and direction

Introducing the wonders of underwater travel in a submarine;  
Sub meaning under or below.

#### Questions to ask:

- Can you think of other creatures you might see underwater?
- How many creatures do you see?
- Which one can fly?
- Which ones have sharp teeth?
- Which fish has the same color as the submarine?
- Which one swims in a school of fish?
- Would you like to take a ride in a submarine?
- Can you see any aquatic plants?



**Submarine Portholes**  
APC1616-SP01  
16" X 16" Peg Style

AGES: PRESCHOOL THROUGH 1st GRADE

### Field Guide

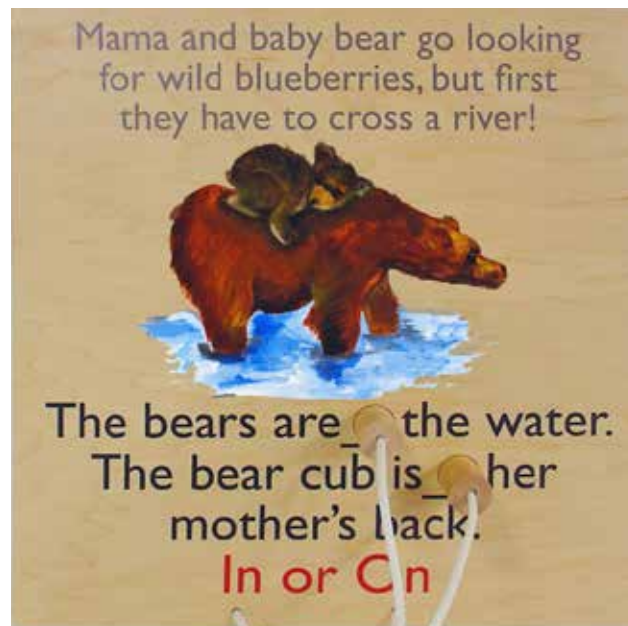
#### Concept of matching

Identifying partial shapes with the matching sea creature.

#### Questions to ask:

- Can you point to the blue creature?
- Can you point to the orange creature?
- Can you point to the grey creature?
- Can you find the circles? What color are they?
- Which sea creature would you like to meet?
- Can you point to the creature with sharp teeth?
- Which creature has long tentacles?





**Mama and Baby Bear**  
 Model: APC1616-MB01  
 16" X 16" Peg Style

AGES: BABIES THROUGH PRESCHOOL  
 STEM

### Field Guide

#### Telling a story

This panel introduces the concept of "in" and "on", while also offering the opportunity to make up a story about a mama bear and baby bear. Encourages observation, imagination and building a narrative.

#### Questions to ask:

- Which bear is bigger? Why?
- Am I bigger than you?
- What is a river?
- What else might be swimming in the river?
- Have you ever had a piggy back ride? Where?
- Do you like eating blueberries?
- Did you know bears can swim much like a dog?



**Fox and Mouse**  
 Model: APC1616-FM01  
 16" X 16" Flat Style

AGES: BABIES THROUGH PRESCHOOL  
 STEM

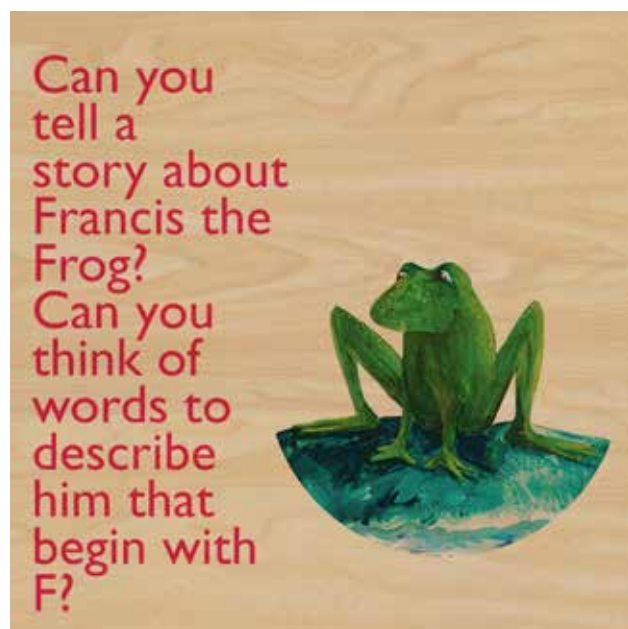
### Field Guide

#### Telling a story

This panel offers an opportunity to make up a story about the fox and mouse. Encourages observation, imagination and building a narrative.

#### Questions to ask:

- How are the mouse and fox similar? [Tail, ears, fur]
- Where do they live?
- Which one is bigger?
- Which one is smaller?
- Can you think of other words that rhyme with fox?
- Can you think of other words that rhyme with mouse?
- Can you think of a word that describes a fox that begins with the letter f? Example: *Funny fox, mad mouse*



**Francis the Frog**  
 Model: APC1616-FF01  
 16" X 16" Flat Style

AGES: BABIES THROUGH KINDERGARTEN

**Field Guide**

**Telling a story**

This panel offers an opportunity to make up a story about the Francis the Frog. Encourages observation, imagination and building a narrative.

**Questions to ask:**

- What color is Francis? Can you think of other green creatures?
- Where might you find him?
- What do you suppose he likes to eat?
- Do you know where he goes in the cold winter?
- Do you know what sounds he makes?
- His feet are webbed to help him swim. Do you like to swim?



**Betty the Bird**  
 Model: APC1616-BB01  
 16" X 16" Flat Style

AGES: BABIES THROUGH KINDERGARTEN

**Field Guide**

**Telling a story**

This panel offers an opportunity to make up a story about Betty the Bird. Encourages observation, imagination and building a narrative.

**Questions to ask:**

- Does Betty have fur or feathers?
- Can you tell where she is standing?
- Do you think Betty's coloring would blend into a tree?

**BABIES**

- Whistle a bird call.
- Flap your arms like you are flying.



**Baxter the Bison**  
 Model: APC1616-BX01  
 16" X 16" Flat Style

AGES: BABIES THROUGH KINDERGARTEN

**Field Guide**

**Telling a story**

This panel offers an opportunity to make up a story about Baxter the Bison. Encourages observation, imagination and building a narrative.

**Questions to ask:**

- What color is Baxter? Can you think of other hoofed creatures?
- What does an open range look like?
- What do you suppose he likes to eat?
- Can you think of a song with buffaloes in it?
- What do you think he likes to eat?



**Thomas the Turkey**  
 Model: APC1616-TT01  
 16" X 16" Flat Style

AGES: BABIES THROUGH KINDERGARTEN

**Field Guide**

**Telling a story**

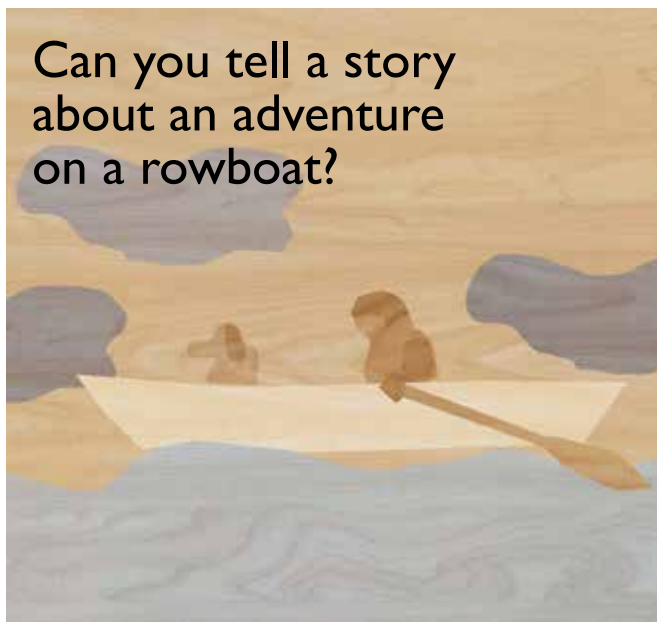
This panel offers an opportunity to make up a story about Thomas the Turkey. Encourages observation, imagination and building a narrative.

**Questions to ask:**

- Does Thomas have fur or feathers?
- Can you name all of the colors in his feathers?
- What color is his neck?
- Does he look happy or sad?

**BABIES**

- A bird call. Example: "Gobble, Gobble"



**Rowboat Adventure**  
 Model: APC1616-BA01  
 16" X 16" Flat Style

AGES: BABIES THROUGH KINDERGARTEN

**Guide**

**Telling a story**

This panel offers an opportunity to make up a story about a man and his dog on a skiff boat. Encourages observation, imagination and building a narrative.

**Questions to ask:**

- What do you think they see along the way?
- How many clouds do you see?
- Is the water wavy?
- How long does their adventure take?
- Where are they going?
- What are they going to do when they get there?



**The Little Fox and Friends**  
 Model: APC1616-FO01  
 16" X 16" Flat Style

AGES: BABIES THROUGH KINDERGARTEN

**Guide**

**Telling a story**

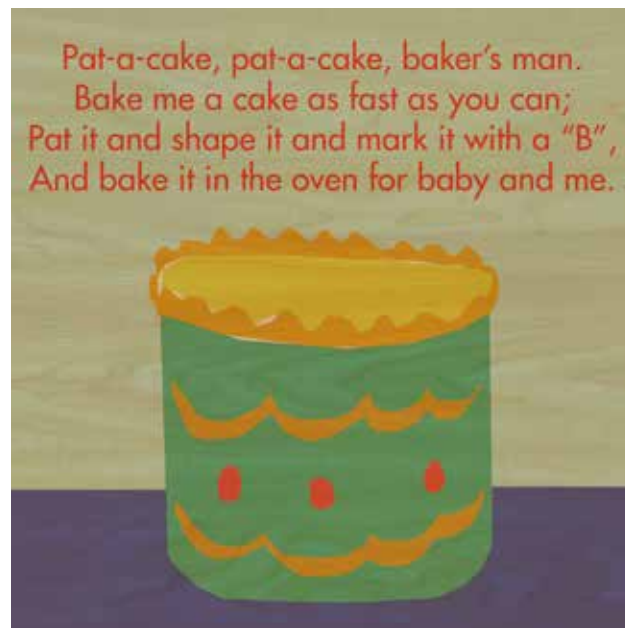
This panel offers an opportunity to make up a story about the little fox and friends? Encourages observation, imagination and building a narrative.

**Questions to ask:**

- Does the fox have fur or feathers?
- Can you name all of the colors all around the fox and friends?
- Where is the fox going?
- Do the friends join or do they just meet along the way?
- What other creatures might they cross paths with in the forest?

**BABIES**

- A bird call. Example: "Hoot Hoot"



**Pat-A-Cake**  
Model: APC1616-PC01  
16" X 16" Flat Style

AGES: BABIES THROUGH KINDERGARTEN

## Field Guide

### Nursery Rhyme

Using the power of nursery rhyme to nurture literacy

#### Questions to ask:

- Do you like cake? What is your favorite kind?
- Can you name the colors in the cake?
- Are there any shapes?
- Is this a tall or short cake?
- How many layers do you think it is?
- If this was a birthday cake what would you add to the cake?
- Can you sing Happy Birthday?
- How many candles would you put on your birthday cake?
- Do you know what the ingredients are in a cake?
- What else do you bake in an oven that you like to eat?
- Can you think of other words that begin with the letter B?



**Hickory, Dickory, Dock**  
Model: APC1616-HD01  
16" X 16" Sliding Style

AGES: BABIES THROUGH KINDERGARTEN

## Field Guide

### Nursery Rhyme

Using the power of nursery rhyme to nurture literacy and introduce the concept of up and down

#### Questions to ask:

- Can you name the parts of the mouse? Tail, Eye, Ear and Nose?
- Is the color of the clock and mouse similar? What color are they?
- Can you name the numbers on the clock?
- Have you seen a mouse in your house?
- What shape is the clock face?
- Can you find any other circles?



**Match the Shapes**  
 Model: APC1616-MS01  
 16" X 16" Peg Style

AGES: BABIES THROUGH KINDERGARTEN  
 STEM

**Field Guide**

**Concept of matching shapes and colors**

Can you name the colors? Can you name the shapes?  
 Phonetics introduced with letters A, B, C, D. Sound out the names of the *Alligator, Bird, Cow and Dog.*

**Questions to ask:**

- Can you think of other words that begin with A?
- Can you think of other words that begin with B?
- Can you think of other words that begin with C?
- Can you think of other words that begin with D?
- Which one of them lives in the water?
- Which one has spots? Can you count how many spots?
- Which one has feathers?
- Can you look for any circles around you? How about squares?
- How many sides are in the square?
- How many sides are in the hexagon?
- What sound does a cow make? How about a dog?
- Would you like to take a dog or an alligator for a walk?



**Puppies and Balls**  
 Model: APC1616-PB01  
 16" X 16" Peg Style

AGES: BABIES THROUGH KINDERGARTEN  
 STEM

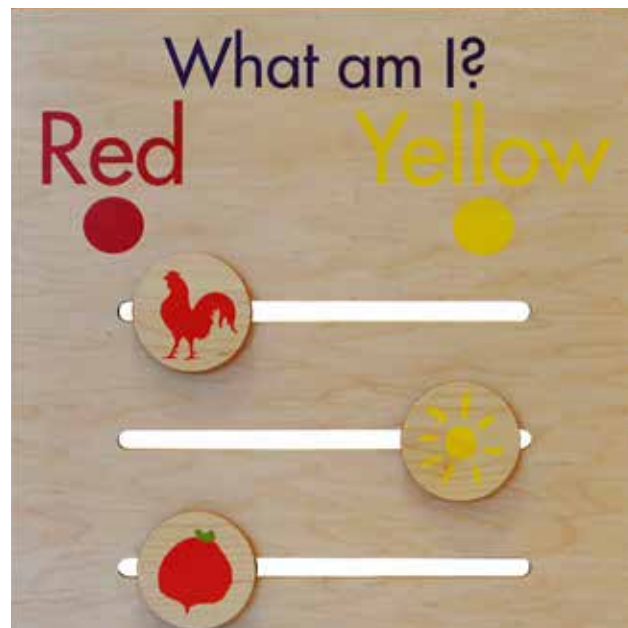
**Field Guide**

**Concept of matching colors and counting**

Can you name the colors?

**Questions to ask::**

- How many puppies do you see?
- How many balls do you see?
- What shape are the balls?
- Do you like to play with balls?
- Let's name the puppies.
- Which puppy has spots?
- Would you like to take these puppies and balls home with you?



**What am I? Red or Yellow**  
 Model: APC1616-WR01  
 16" X 16" Sliding Style

AGES: BABIES THROUGH KINDERGARTEN  
 STEM

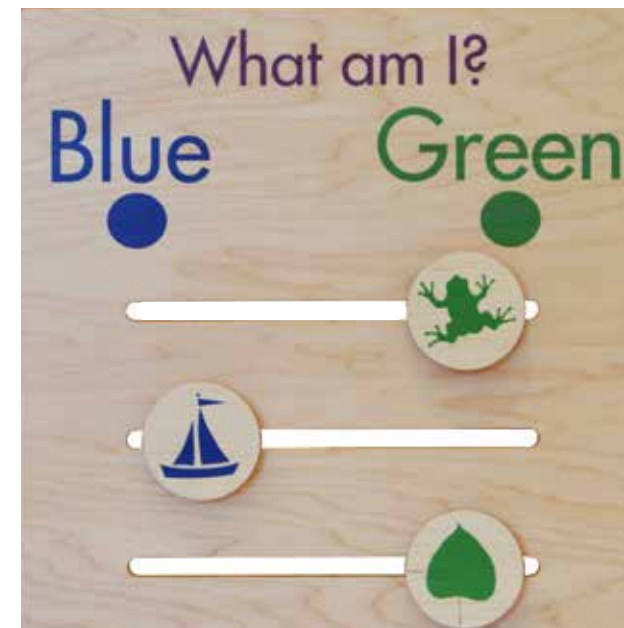
**Field Guide**

**Concept of matching colors**

Can you name the colors? What is the rooster?  
 What is the sun? What is the radish?

**Questions to ask:**

- Can you point to the bird?
- Which one is a vegetable?
- Which one grows with sunshine?
- Can you name other red things?
- Can you name other yellow things?
- Which one can you feel without touching it? [sun]
- What sound does a rooster make?
- Have you ever tasted a radish?



**What am I? Blue or Green**  
 Model: APC1616-WB01  
 16" X 16" Sliding Style

AGES: BABIES THROUGH KINDERGARTEN  
 STEM

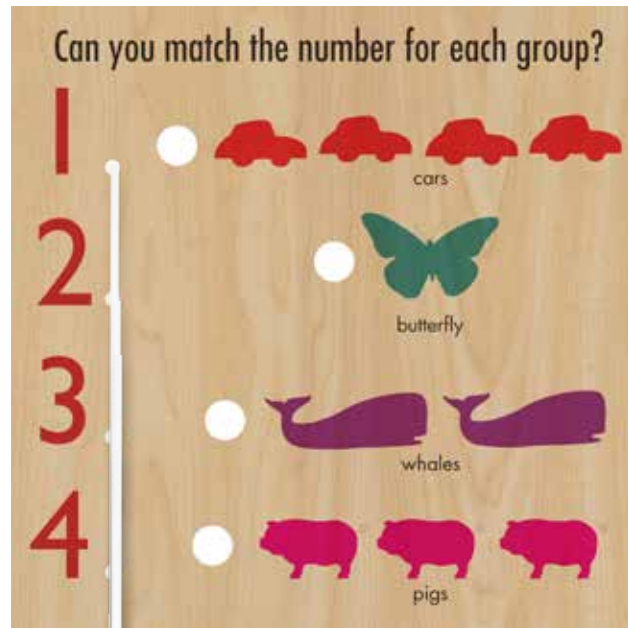
**Field Guide**

**Concept of matching colors**

Can you name the colors?  
 Point to the frog, sailboat and leaf.

**Questions to ask:**

- Which one can you ride in?
- Which would you find in a lake?
- Which one is non-living?
- Can you name other things that are blue and green?
- How many legs does the frog have?
- How many masts does the sailboat have?
- Can you point to the flag?



Counting 1 - 4  
 Model: APC1616-CT01  
 16" X 16" Peg Style

AGES: BABIES THROUGH KINDERGARTEN  
 STEM

Field Guide

Match the number with the appropriate grouping

Questions to ask:

- Which one can you ride in?
- Which would you find in the water?
- Which one is non-living?
- What color are the cars?
- What colors are the butterfly, whale and pig?
- Which one could you hold in your hand?
- What sound does the pig make?
- Which one has the most in its group?
- Which one has the least in its group?
- If each pig wanted to ride in his/her own car, would there be any empty cars? If so how many?
- Which 2 groups, when added together, would equal the number of cars. *Pig and butterfly*  $3 + 1 = 4$
- Which 2 groups, when added together, would equal the number of pigs. *Butterfly and whale*  $1 + 2 = 3$



Swimming Dogs!  
 Model: APC1616-SD01  
 16" X 16" Sliding Style

AGES: PRESCHOOL THROUGH 1st GRADE  
 STEM

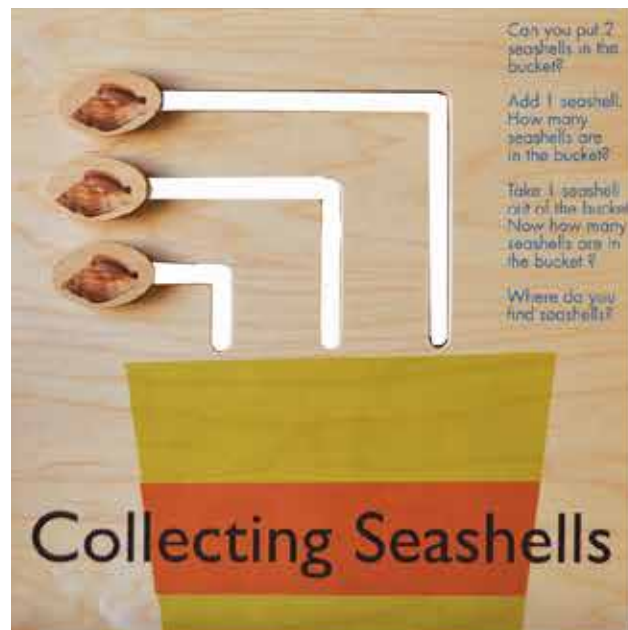
Field Guide

Math literacy incorporating counting, adding and subtraction

Questions to ask:

- Add more story problems using the puppies. Non-math:
- Up-down concept
- In and out of the pool.
- What color is the pool?
- Can you think of any other things that are blue?
- Would you like to swim with the dogs?





**Collecting Seashells**  
 Model: APC1616-CS01  
 16" X 16" Peg Style

AGES: PRESCHOOL THROUGH KINDERGARTEN  
 STEM

**Field Guide**

Math literacy incorporating counting, adding and subtraction

**Questions to ask:**

Add more story problems using the seashells. Non-math:

- Up-down concept
- In and out of the bucket
- What colors does the bucket have?
- Where would you find seashells?
- Can you think of any other things that you would like to collect?



**How to Make a Cake**  
 Model: APC1616-CK01  
 16" X 16" Sliding Style

AGES: PRESCHOOL THROUGH 1st GRADE  
 STEM

**Field Guide**

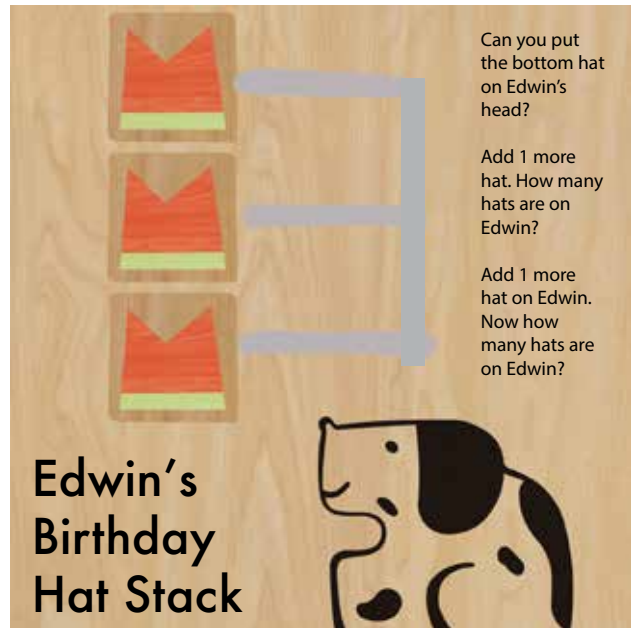
Math literacy incorporating counting and adding

**Questions to ask:**

Add more story problems using the eggs, teaspoon and cup.

Non-math:

- Up-down concept
- In and out of the bowl
- What color is the teaspoon?
- Do you like to bake?
- Do you like to eat cake? What kind of cake do you like?
- What kind of decorations would you put on your cake?



**Edwin's Hat Stack**  
 Model: APC1616-EH01  
 16" X 16" Sliding Style

AGES: PRESCHOOL THROUGH KINDERGARTEN  
 STEM

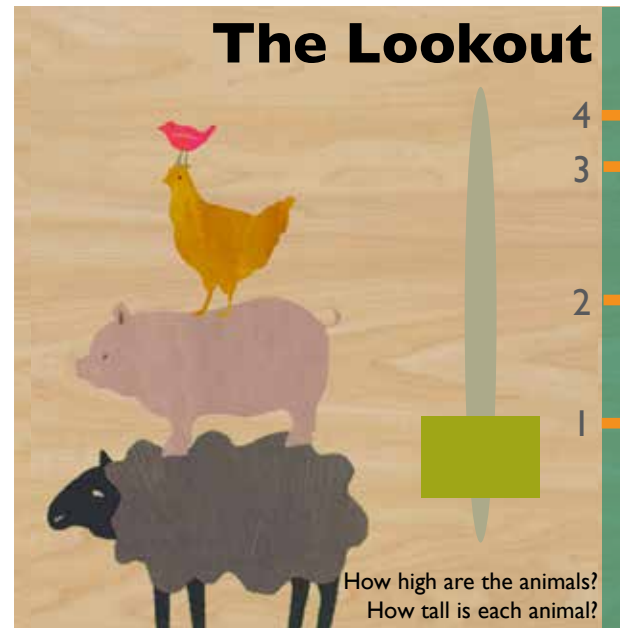
**Field Guide**

Math literacy incorporating counting and adding

**Questions to ask:**

Add more story problems using the hats. Non-math:

- Up-down concept
- Top hat, bottom hat, middle hat
- What colors are in Edwin's Birthday Hat?
- How old are you?
- Do you like to wear birthday hats?
- Can you tell a story about Edwin's Birthday Party?



**The Lookout**  
 Model: APC1616-LO01  
 16" X 16" Sliding Style

AGES: PRESCHOOL THROUGH 1st GRADE  
 STEM

**Field Guide**

Math literacy incorporating measuring and identifying numbers

**Questions to ask:**

Add more story problems using the animals. Non-math:

- How many animals are there?
- Which ones can fly?
- Which one has wool?
- Which ones have feathers?
- Who is on the top? Who is on the bottom?
- Can you tell a story about what they are on the look out for?



**Transportation**  
 Model: APC1616-TP01  
 16" X 16" Peg Style

AGES: BABIES THROUGH PRESCHOOL

**Field Guide**

Introducing the concept of transportation

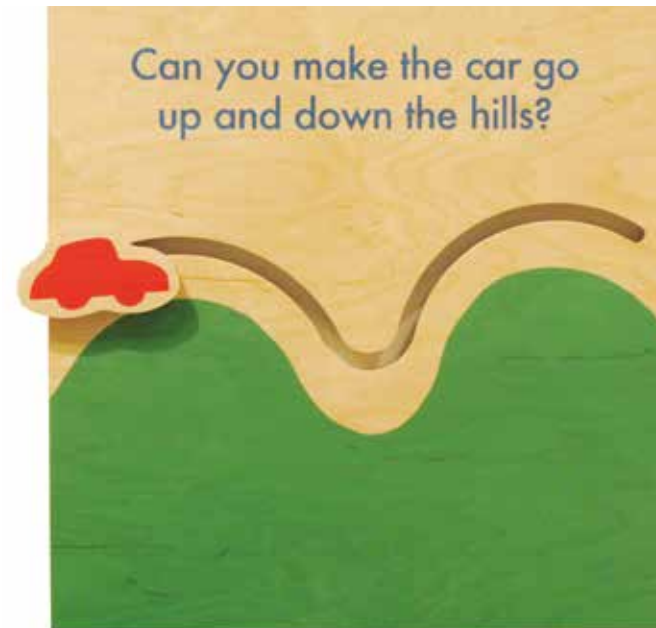
**Questions to ask:**

Match the plane, boat and car to the scene.

- Which one can fly?
- Which can travel on water?
- Which one travels on roads?

Sound out each word.

- Can you think of other words that begin with "P" and "B"?
- Which one is red?
- Which one is blue?
- Which one is orange?
- Which one would you like to travel in?
- Where would you like to go?
- Who would you bring with you?



**Car Goes Up and Down**  
 Model: APC1616-CG01  
 16" X 16" Sliding Style

AGES: BABIES THROUGH PRESCHOOL

**Field Guide**

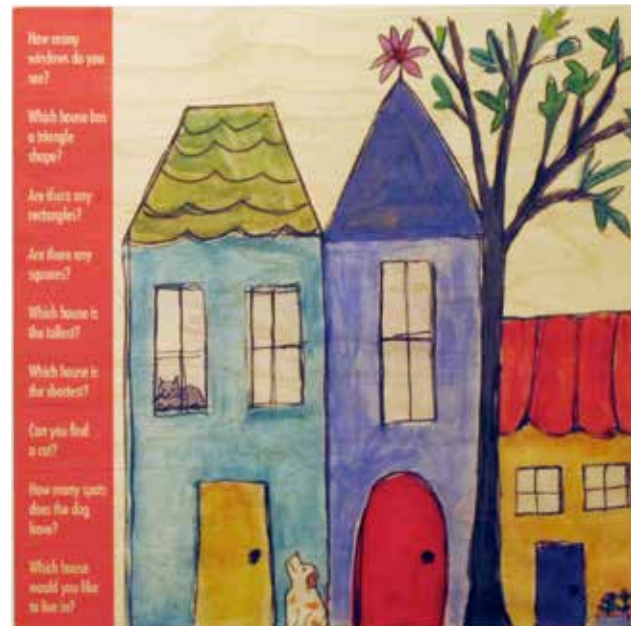
Introducing the concept of direction

Up and down.

Forward and backward.

**Questions to ask:**

- What color is the car?
  - What letter does car begin with?
  - Can you think of other words that rhyme with car?
  - Would you like to ride in the car as it goes over the hills?
- Would it tickle your tummy?



**Neighborhood**  
Model: APC1616-NB01  
16" X 16" Flat Style

AGES: BABIES THROUGH KINDERGARTEN  
STEM

**Field Guide**

Looking at shapes within a picture  
Make up a story about the house you would like to live in.

- Questions to ask:
- Can you find all of the flowers in this picture?
  - Can you find the red door?
  - Is the tree the tallest in the picture?
  - Which door looks like an upside down U?
  - What do you suppose the dog is looking at?



**Walk the Dog**  
Model: APC1616-RW01  
16" X 16" Sliding Style

AGES: BABIES THROUGH KINDERGARTEN  
STEM

**Field Guide**

The concept of walking a pet in the neighborhood

- Questions to ask:
- What does Rover pass along his way?
  - What colors do you see?
  - Do you take your dog for walks?
  - Can you count how many windows you see?
  - Can you point to the tallest door?



**Where Do I Live?**  
 Model: APC1616-WD01  
 16" X 16" Peg Style

AGES: BABIES THROUGH KINDERGARTEN  
 STEM

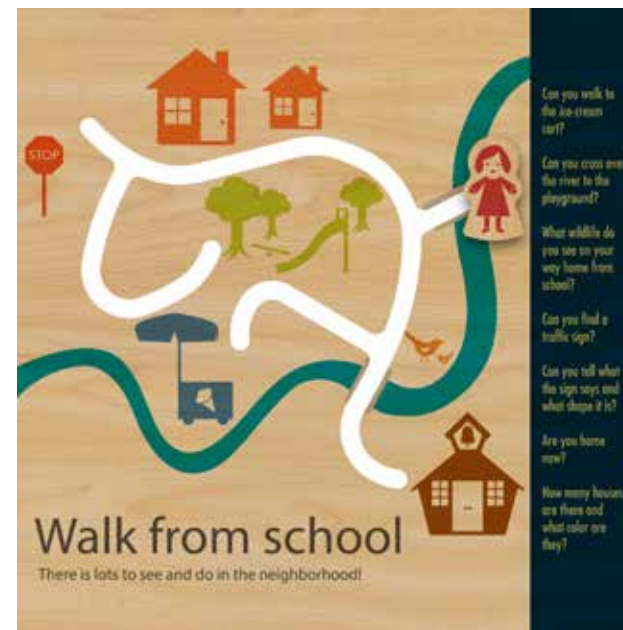
**Field Guide**

Concept of different places to live [dwelling]

Where does a bird, fish or person live?

Questions to ask:

- What colors do you see?
- Which home would be the smallest?
- How many eggs are in the nest?
- Which one would you find in a tree?
- Where do you live?



**A Walk Home from School**  
 Model: APC1616-AW01  
 16" X 16" Sliding Style

AGES: BABIES THROUGH PRESCHOOL  
 STEM

**Field Guide**

Introducing the idea of taking a walk and practicing observing along the way

Questions to ask:

- Why does the school have a bell?
- Why is there a stop sign?
- Where would you like to go?
- How did you get over the river?
- What kind of ice cream would you like to eat?
- Can you count how many birds there are?
- Would you like to swim in the river? What might you see?
- Do you like going down a slide?
- Do you like going up and down on the see-saw?



Day and Night  
 Model: APC1616-DN01  
 16" X 16" Flat Style

AGES: BABIES THROUGH KINDERGARTEN

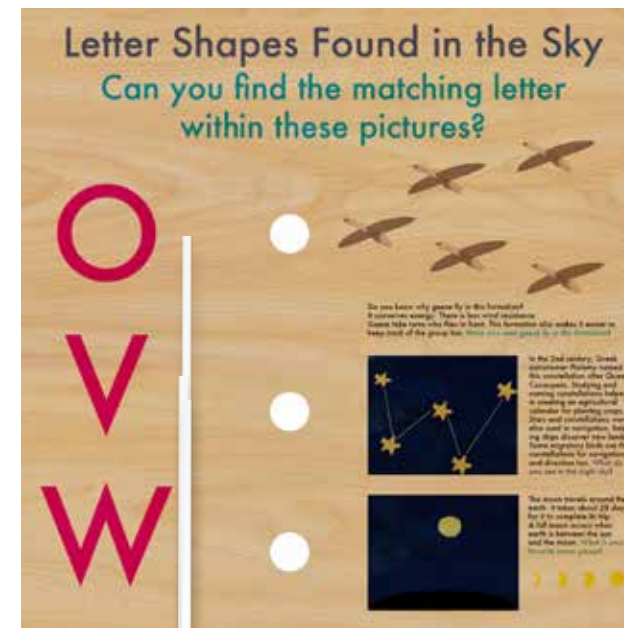
### Field Guide

#### Time

Concept of time using the sun (day) and moon (night)

#### Questions to ask:

- Do you go to school at night or day?
- Do the birds sing during the day or night?
- Do you see rainbows during the day or night?
- Do you see fireflies at night or day?
- Is your bedtime at night or day?



Sky Shapes  
 Model: APC1616-SS01  
 16" X 16" Peg Style

AGES: PRESCHOOL THROUGH 3RD GRADE  
 STEM

### Field Guide

Phonetics and abstract shape visualization

#### Questions to ask:

- Can you name other objects beginning with O, V and W?
- What other tools do we use to navigate?
- Can you think of animals that travel in groups?
- Can you name other letter formations that can be seen in the sky?
- Can you think of other creatures that use the moon to help with direction?



**H for Horse**  
 Model: APC1616-HH01  
 16" X 16" Slider Style

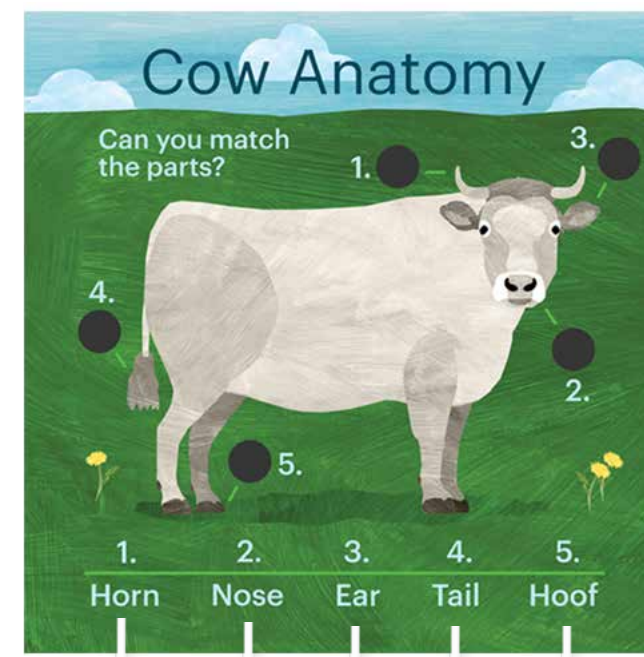
AGES: BABIES THROUGH 2nd GRADE

**Guide**

Concept of letter recognition and phonetics

**Questions to ask:**

- Where should the horse go?
- What color is the barn? What animals live in a barn?
- Where is the fruit?
- What sound does a horse make?
- What shape is the bale of hay?
- Have you ever been to a farm? What did you see there?
- What else does a horse like to eat?



**Cow Anatomy**  
 Model: APC1616-CA01  
 16" X 16" Peg Style

AGES: BABIES THROUGH 2nd GRADE  
 STEM

**Guide**

Concept of a cow's anatomy

**Questions to ask:**

- What color is the cow?
- Can you point to your eye, nose and ear?
- Where does a cow sleep?
- What do you suppose he uses his horns and tail for?
- Would you like to pet this cow? What would it feel like?
- Can you think of creatures that begin with C?
- Can you think of a word that begins with the letter C to describe the Cow? Example: *Cute, Calm, Clever Cow*

BABIES

- A cow's call. Example: "Moo"



**Food Groups**  
 Model: APC1616-FP01  
 16" X 16" Peg Style

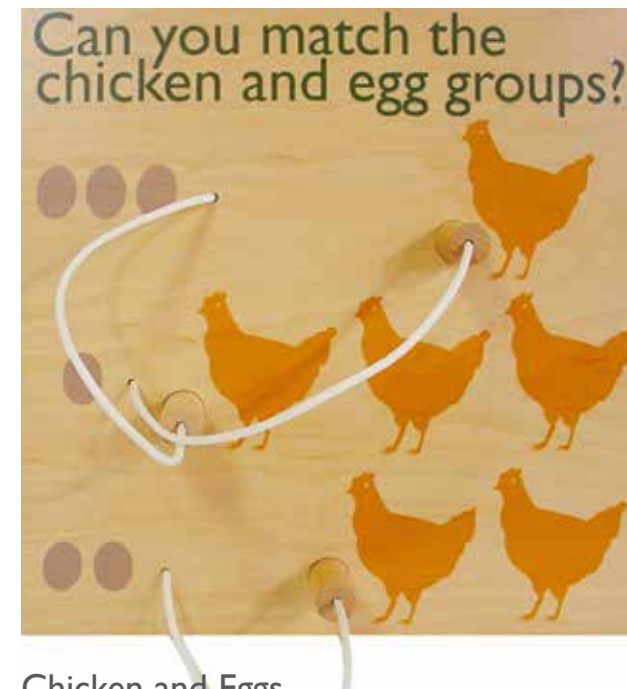
AGES: BABIES THROUGH 2nd GRADE

**Field Guide**

Concept of food source beyond the grocery store

**Questions to ask:**

- Can name the food groups pictured?  
 [milk-dairy, egg-meat, bread-grain]
- Can you name other types of food groups?
- Which one is different? [Bread- comes from plants not animals]
- Do you have a favorite food?
- Where would you buy these food items?
- Have you ever milked a cow?
- Who raises cows and chickens for our food?
- Have you ever been to a farm? What did you see there?



**Chicken and Eggs**  
 Model: APC1616-CE01  
 16" X 16" Peg Style

AGES: BABIES THROUGH 2nd GRADE  
 STEM

**Field Guide**

Concept of counting and matching

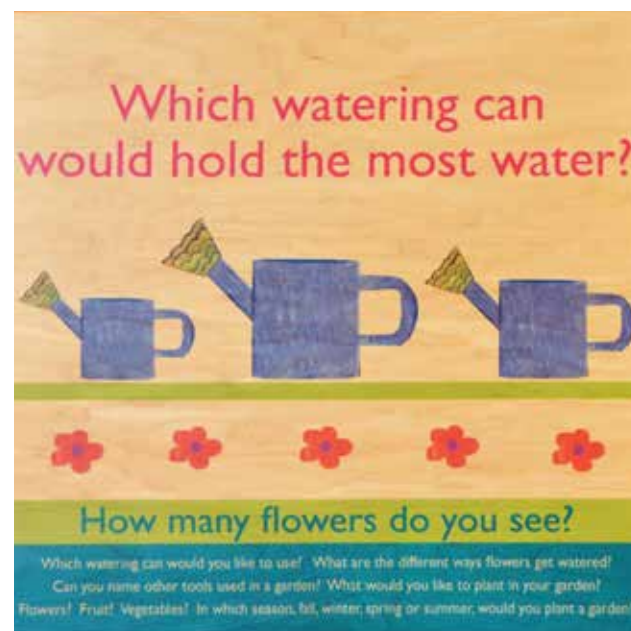
**Questions to ask:**

- Can you count all of the eggs?
- Can you count all of the chickens?
- Do you eat eggs for breakfast?

**BABIES**

- A bird call. Example: "Cluck, Cluck"





**Watering Cans**  
 Model: APC1616-WC01  
 16" X 16" Flat Style

AGES: BABIES THROUGH 2nd GRADE  
 STEM

### Field Guide

Introducing the concept of size relationships and volume

#### Questions to ask:

- How many watering cans and flowers are there?
- How does a garden grow?
- What other gardening tools are used? [*rake, shovel, hose*]
- What tools would a farmer use?
- Can you think of other types of tools? For cooking? For eating?
- What words rhyme with can?
- Talk about the different seasons and what happens in each season.



**The Garden**  
 Model: APC1616-GD01  
 16" X 16" Flat Style

AGES: BABIES THROUGH 2nd GRADE  
 STEM

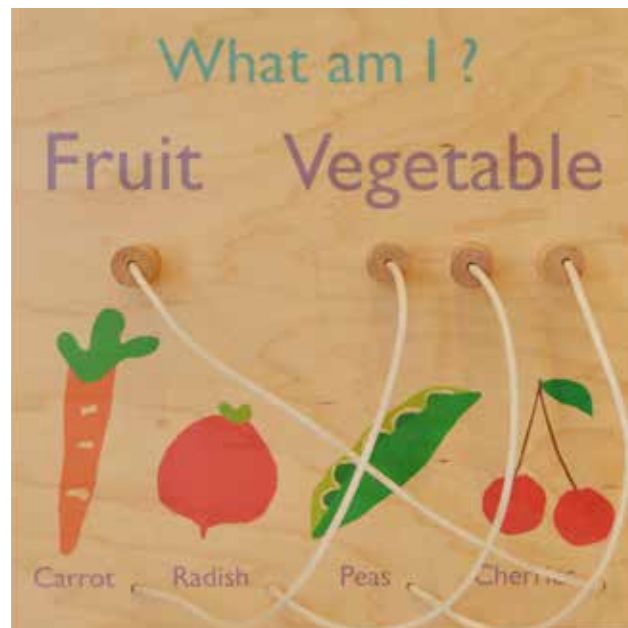
### Field Guide

Observation in size and measuring

Measuring with a ruler. The concept of size relationships.  
 For pointing and sounding out the words.

#### Questions to ask:

- Count the numbers along the ruler.
- What does the bird say?
- What is the bird standing on?
- Which is your favorite flower?
- How many ears of corn do you see?
- Find all the things that are yellow.
- Which one can fly away?
- What letter does "garden" begin with?
- Using the yellow ruler on the side, ask: How many inches is your hand?



**What Am I? Fruit or Vegetable-1**  
 Model: APC1616-FGO1  
 16" X 16" Peg Style

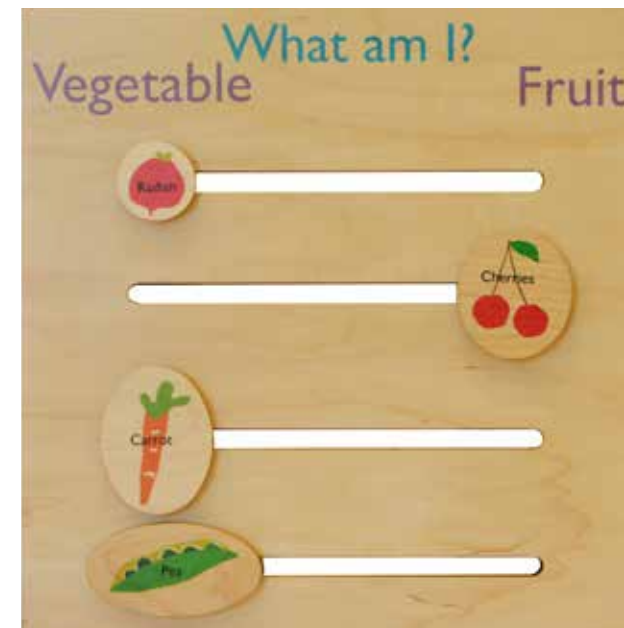
AGES: BABIES THROUGH 2nd GRADE

**Field Guide**

Concept of matching

Questions to ask:

- Which one is a fruit or vegetable?
- Can you name other fruits?
- Can you name other vegetables?
- Do you have a favorite fruit?
- Which ones are red?
- Which one is all green?
- Which one grows on trees?
- Can you think of words that rhyme with "P"?
- Do you have a garden?



**What Am I? Fruit or Vegetable-2**  
 Model: APC1616-FW01  
 16" X 16" Sliding Style

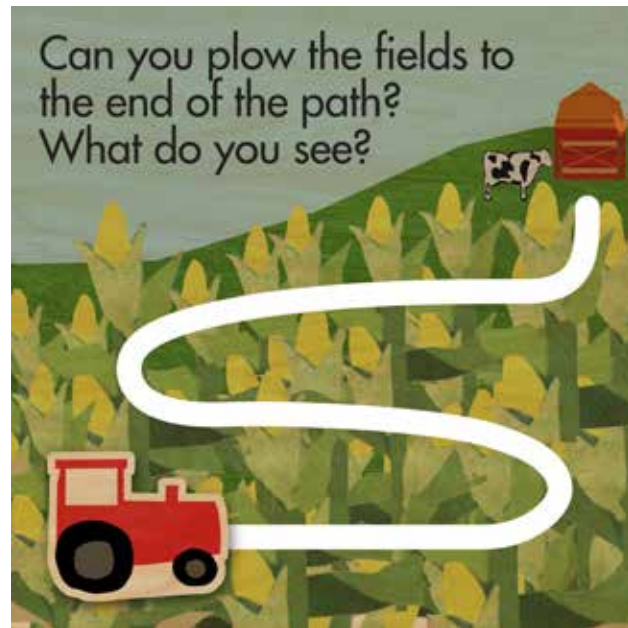
AGES: BABIES THROUGH 2nd GRADE

**Field Guide**

Concept of matching

Questions to ask:

- Which one is a fruit or vegetable?
- Can you name other fruits?
- Can you name other vegetables?
- Do you have a favorite fruit?
- Which ones are red?
- Which one is all green?
- Which one grows on trees?
- Can you think of words that rhyme with "P"?
- Do you have a garden?



**Tractor Plowing**  
Model: APC1616-PW01  
16" X 16" Sliding Style

AGES: BABIES THROUGH 2nd GRADE

**Field Guide**

Concept of movement and direction

Questions to ask:

- What color is the tractor?
- Do you know what is growing in the field?
- What is up on the hill?
- What does a cow sound like?
- How does a chicken call?
- Can you tell what time of year it might be?
- Would you like to drive a tractor?



**Three Flowers**  
Model: APC1616-CF01  
16" X 16" Peg Style

AGES: BABIES THROUGH 2nd GRADE

**Field Guide**

Concept of matching colors

Questions to ask:

- How many flowers are there?
- Can you point to the flower stems?
- Which flower is the color of the sky?
- Which flower is the color of a strawberry?



Gardening Tool - Watering Can  
Model: APC1616-GT01  
16" X 16" Flat Style

AGES: BABIES THROUGH 2nd GRADE

### Field Guide

Understanding the word "tool" and phonetics

Questions to ask:

- The other tools: shovel, bushel basket, pitch fork.
- How many flowers are there?
- Can you think of another object that has a handle and a spout?

Example: teapot

- Would you like to water a garden?
- What would you grow in your garden?
- Do farmers use watering cans to water their fields of corn?



The Flowers  
Model: APC1616-FL01  
16" X 16" Flat Style

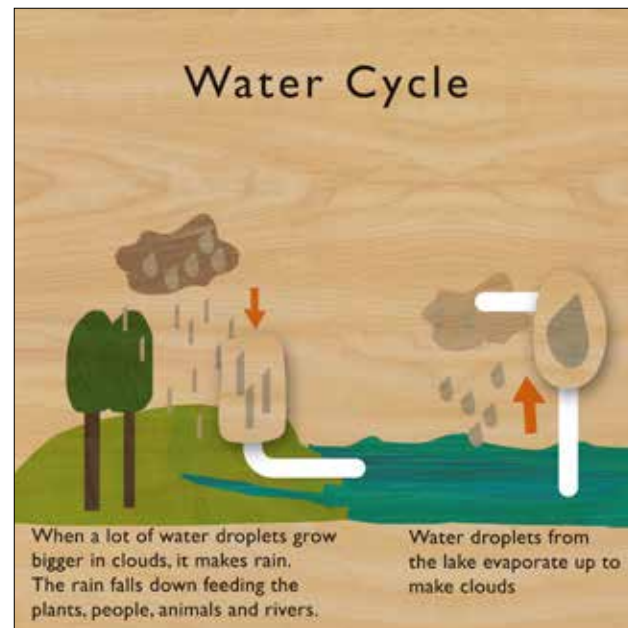
AGES: BABIES THROUGH 2nd GRADE

### Field Guide

Concept of different heights

Questions to ask:

- How many flowers are there?
- How many flowers do you see?
- What color are the the petals?
- Can you point to the flower stem?
- Which flower would you like to have?



## Water Cycle

Model: APC1616-WY01  
16" X 16" Slider Style

AGES: BABIES THROUGH 2nd GRADE  
STEM

### Field Guide

Introducing the water cycle concept

#### Questions to ask:

- Rain also creates puddles. Do you like to jump in puddles?
- Have you ever felt the rain on your face?
- What do you wear on a rainy day?
- Why is water important to all life forms?



## The Wind Blows Over a Lake

Model: APC1616-WL01  
16" X 16" Sliding Style

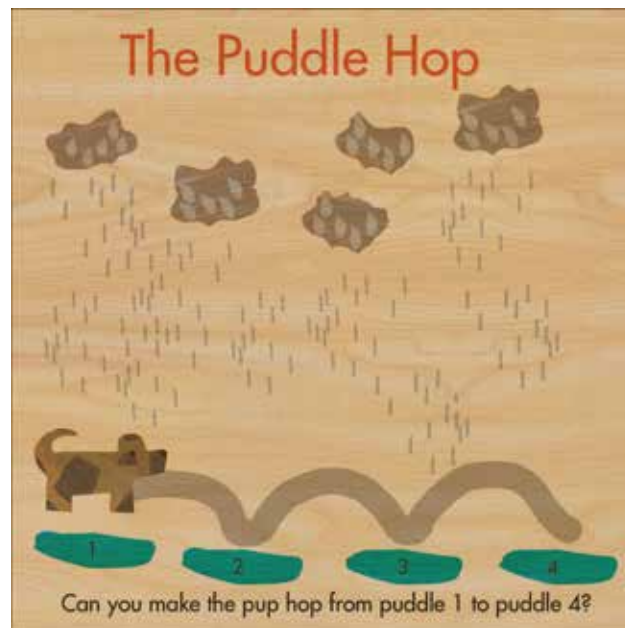
AGES: BABIES THROUGH 2nd GRADE  
STEM

### Field Guide

Concept of wind and clouds and movement from east to west

#### Questions to ask:

- Does the wind create movement?
- What happens on a windy day?
- Do the leaves on the trees move?
- Does your hair move?
- When the wind is coming across the lake what do the clouds do?
- Are there big waves on a windy day?
- How might white clouds and very dark grey clouds change weather?



**The Puddle Hop**  
 Model: APC1616-PH01  
 16" X 16" Sliding Style

AGES: BABIES THROUGH 2nd GRADE  
 STEM

### Field Guide

Concept of counting, movement and direction

#### Questions to ask:

- How many clouds do you see?
- Can you count the puddles?
- Do you think the dog is getting wet? From what?
- Can you make the dog hop backward and forward?
- Have you jumped in puddles?
- What do you suppose is creating all these puddles?
- What letter does puddle and pup begin with?
- Can you think of a name for the pup that begins with that letter?
- If the pup hopped forward and backward, how many puddles would he have hopped in?
- Can you count the puddles?



**Weather Vane Study**  
 Model: APC1616-WE01  
 16" X 16" Peg Style

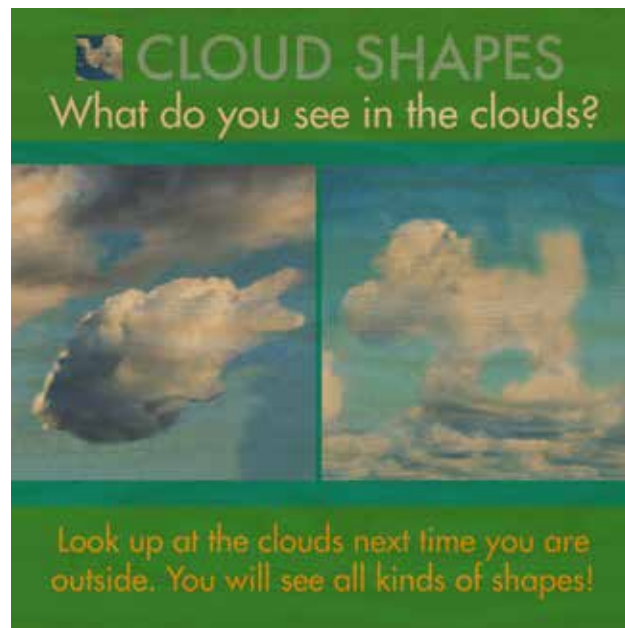
AGES: BABIES THROUGH 2nd GRADE

### Field Guide

Concept of matching positive and negative shapes

#### Questions to ask:

- Weathervanes point to wind direction.
- How many weathervanes are there?
- Can you point to the weathervanes that shows living creatures for its decoration?
- Which weathervane would you like to have?



**Cloud Shapes**  
 Model: APC1616-CL01  
 16" X 16" Flat Style

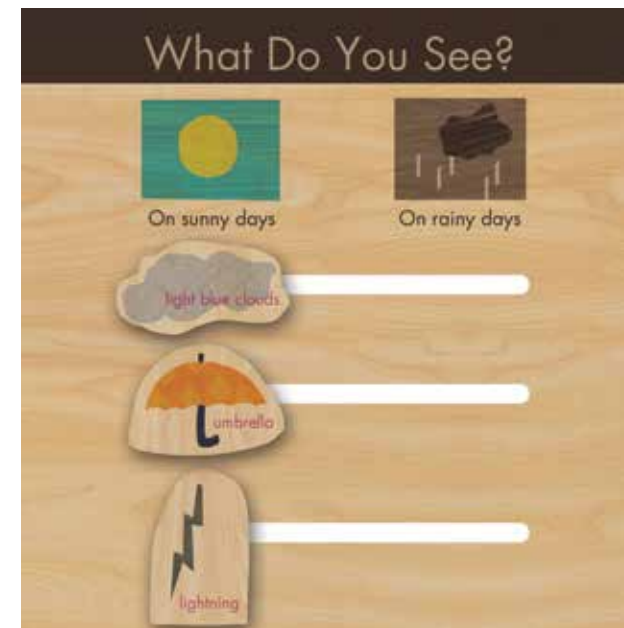
AGES: BABIES THROUGH 2nd GRADE

### Field Guide

Looking at cloud shapes and encouraging imaginative thinking

#### Questions to ask:

- Which one of the clouds would you like as a pet?
- What cloud shapes have you seen?
- How many big clouds do you see?
- What do the dog and fish have in common?
- Which cloud do you like?



**Rain or Shine**  
 Model: APC1616-RS01  
 16" X 16" Sliding Style

AGES: BABIES THROUGH 2nd GRADE  
 STEM

### Field Guide

Observing weather

#### Questions to ask:

- What do you like to do on sunny days?
- What do you like to do on rainy days?
- Why are sunny days important?
- Why are rainy days important?
- Which ones do you see in the sky?
- Which one can you hold in your hand?
- Can you say a poem about a sunny day?
- Can you say a poem about a rainy day?



Picture Gazing Just For Babies No. 1  
 Model: APC1616-PG01  
 16" X 16" Flat Style

AGE: BABIES

**Field  
 Guide**

Talk to your baby while looking at the pictures  
 Bold, high contrast graphics perfect for the wee ones.



Picture Gazing Just For Babies No. 2  
 Model: APC1616-PT01  
 16" X 16" Flat Style

AGE: BABIES

**Field  
 Guide**

Talk to your baby while looking at the pictures  
 Bold, high contrast graphics perfect for the wee ones.





Hinged Door Farm Animals - pictured right is what the child sees when he/she opens the door.

Cow-Hen-Peg-Sheep  
 Model: APC1616-CH01  
 16" x 16" Hinged Door Style  
 AGE: BABIES THRU 2ND GRADE

**Field Guide**

Sensory and Cause and Effect is very important in child development  
 The element of surprise when they open the door to find out what they see!

- Nursery Rhymes/Songs are important part of Early Literacy practices.
- Call out MOO and Cluck, Cluck.
- Sing Baa Baa Black Sheep.
- Can you find words that rhyme with cow, pig, hen and sheep?
- Can you tell a story with all these creatures in it?



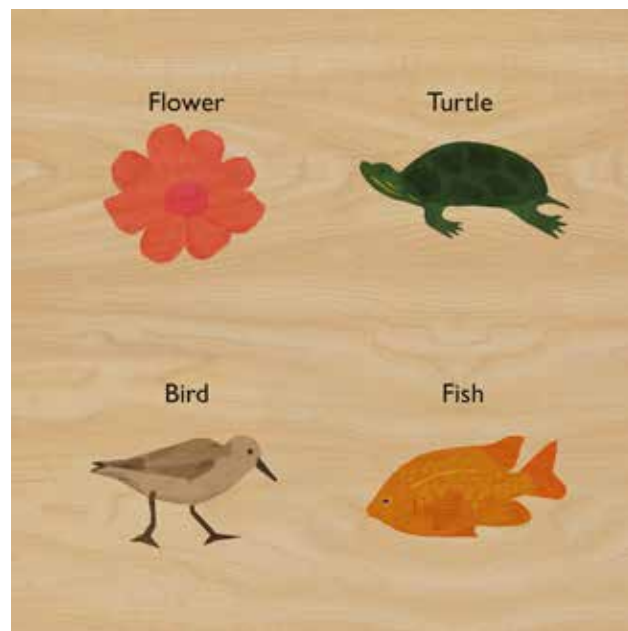
Hinged Door Mode of Transportation - pictured right is what the child sees when he/she opens the door

Car-Bus-Train-Helicopter  
 Model: APC1616-MT01  
 16" x 16" Hinged Door Style  
 AGE: BABIES THRU KINDERGARTEN

**Field Guide**

Sensory and Cause and Effect is very important in child development  
 The element of surprise when they open the door to find out sounds they make!

- Call out vroom, honk, choo choo and chop chop.
- Have you ridden in a car, bus, train or helicopter?
- Can you tell a story about taking a trip on a train?



Guess the Creature No. 1 - pictured right is what the child sees when he/she opens the door

Model: APC1616-GC01

16" x 16" Hinged Door Style

AGE: BABIES THRU 2ND GRADE

**Field Guide**

Sensory and Cause and Effect is very important in child development

The element of surprise when they open the door to find out what they see!

- Do you have a favorite creature?
- Which one can fly?
- Can you name the colors of each creature?
- Can you name each creature?



Guess the Sea Creature - pictured right is what the child sees when he/she opens the door

Model: APC1616-SC01

16" x 16" Hinged Door Style

AGE: BABIES THRU KINDERGARTEN

**Field Guide**

Sensory and Cause and Effect is very important in child development

The element of surprise when they open the door to find out what they see!

- Do you have a favorite creature?
- Which one does not have spots?
- Which one is spiky?
- Which sea creature would you like to meet in the ocean?

## Learning Panel Cart

This handy cart was designed for transporting and storing Learning Panels. Lined with felt in just the right places, protects the panels during transport. Holds up to seven Learning Panels.

Dimensions: 17.75" W x 23.75" D x 21" H



## Mounting Panels for the Learning Panel

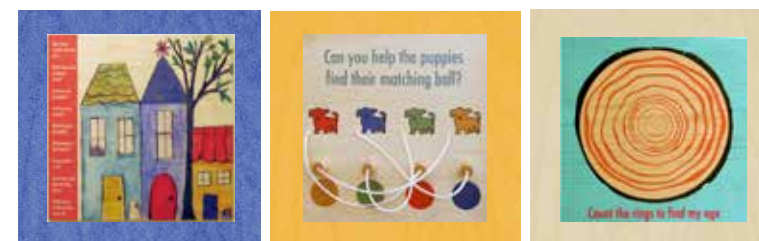
Mounting panels are sold separately from the Learning Panel. Mounting Panels are 3/4" thick and can hold 1 to 5 Learning Panels, or up to 95.5" in length and can get tight joint fastened for longer runs.

**Mounting Panels come with predetermined pilot holes machined to accept Learning Panel clips.**

**Laminate Mounting Panel** - Colored laminate on the front with phenolic backer on the back. Edge is Exposed ply.  
**Wood Mounting Panel** - .75" Baltic Birch with exposed plywood edge.

Mounting panels are generally field drilled and mounted to a wall using wall fasteners such as long screws into the wall stud, drywall toggles for drywall or cement inserts for cement walls. The position of the holes for the anchors are dependent on the installer and the type of wall the panel is mounted to. Learning Panels are then attached to the mounting panel by slipping them onto 2 clips included.

**NOTE: Learning Panels can not be installed directly onto drywall, plaster or concrete walls without the Mounting Panel accessory.**



Single mount 20" x 20"



Mounts for multiple panels are also available.

### Recommended heights for mounting Learning Panels

Standard universal heights we suggest 31" from the floor to the top of the Learning Panel. For baby or really small children 24" from the floor to the top of the Learning Panel.

We also recommend ample spacing 2.5"- 3" between Learning Panels panels for ease of use.

# TMC LearnPLAY

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[tmcfurniture.com](http://tmcfurniture.com)

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**THE MAKERS CREATIVE**

