

STEM Lab – October 2019



Pumpkin Roll

Objectives

- Freely explore materials at a developmentally appropriate level

Materials

- Small pumpkins and/or gourds
- Ramps (try different kinds—flat, U-shaped, or large PVC/cardboard tubes)
- Balls, cars, other objects that roll
- Blocks
- Measuring tape

Activities

- Predict which pumpkin will roll the farthest
- Engineer ramps using blocks
- Measure how far pumpkins rolled
- Experiment with force and angle of ramps
- Experiment with different kinds of ramps
- Compare how different objects roll (pumpkin vs. gourd, pumpkin vs. ball, etc)
- Experiment with multiple ramps
- Record results using a chart or bar graph

Optional:

- Glue different textures to the ramps to experiment with friction (ex: carpet, sandpaper, rubber, etc)

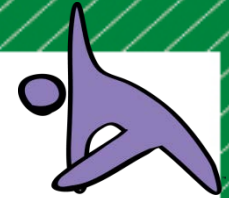
Children learn to


- Develop hypotheses and conclusions
- Count sequentially
- Understand 3D shapes
- Demonstrate persistence in problem solving
- Refine the use of what, why, when, where, and how questions by asking them sequentially
- Recognize and use motion purposefully
- Examine, describe, compare, and contrast the physical properties of two objects or materials
- Apply the concept of gravity
- Understand spatial relation and proportions
- Record findings or observations with words or pictures
- Verbally compare and contrast items
- Use standard or nonstandard measurement tools to problem-solve or plan
- Understand cause and effect



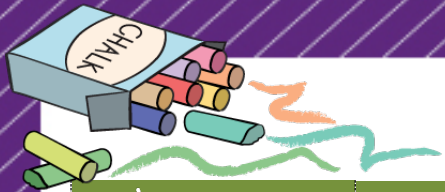
Movement Matters - October 2019

Hula Hoop, Jump Rope, Four Square and Tennis




|  Bright Horizons. <small>Early Education & Preschool</small> | Young Preschool | Preschool | Kindergarten Prep | Kindergarten |
|---|--|--|--|--|
| Objectives | <ul style="list-style-type: none"> To promote physical development and wellness to create good habits and positive attitudes To engage in physical activity | | | |
| Materials | <ul style="list-style-type: none"> Hula Hoops Jump ropes Foam Blocks Cones Big Balls Tennis Balls Ping Pong Balls Racquets Mats | <ul style="list-style-type: none"> Hula Hoops Jump ropes Foam Blocks Cones Big Balls Tennis Balls Ping Pong Balls Racquets Mats | <ul style="list-style-type: none"> Hula Hoops Jump ropes Foam Blocks Cones Big Balls Tennis Balls Ping Pong Balls Racquets Mats | <ul style="list-style-type: none"> Hula Hoops Jump ropes Foam Blocks Cones Big Balls Tennis Balls Ping Pong Balls Racquets Mats |
| Activities | <ul style="list-style-type: none"> Ping Pong Tennis Hula Hoop Doggy Where's Your Bone Duck, Duck Goose | <ul style="list-style-type: none"> Ping Pong Tennis Hula Hoop Doggy Where's Your Bone Four Square Chinese Jump Rope | <ul style="list-style-type: none"> Ping Pong Tennis Hula Hoop Doggy Where's Your Bone Four Square Chinese Jump Rope Dodge Cube | <ul style="list-style-type: none"> Ping Pong Tennis Hula Hoop Doggy Where's Your Bone Four Square Chinese Jump Rope Dodge Cube |
| The children learn to: | <ul style="list-style-type: none"> Follow simple safety rules Strengthen and refine gross motor skills | <ul style="list-style-type: none"> Adhere to safety rules Participate in physical activities with peers | <ul style="list-style-type: none"> Apply safety guidelines Coordinate multiple muscle movements | <ul style="list-style-type: none"> Advance balance and coordination |





Art Studio – October 2019

|  Bright Horizons Early Education & Preschool | Week of October 1-4 Foil Prints | Week of October 7-11 Pinecone Painting | Week of October 14-18 Spider Web Resist Art | Week of October 21-25 Fall Play Dough Invitation | Week of October 28-31 Pumpkin Painting |
|---|--|--|---|--|---|
| Objectives | Purposefully choose art tools and materials to achieve desired outcomes | Purposefully choose art tool and materials to achieve desired outcomes | Purposefully choose art tools and materials to achieve desired outcomes | Represent an idea using visual media and materials | Represent an idea using visual media and materials |
| Materials | <ul style="list-style-type: none"> • Foil • Paint • Construction paper | <ul style="list-style-type: none"> • Pinecones of various sizes • Paint • Construction paper • Large box tops | <ul style="list-style-type: none"> • Masking tape • Water colors • Watercolor paper • Small brushes | <ul style="list-style-type: none"> • Pumpkin play dough • Acorns • Pumpkin seeds • Fake or real leaves • Small Twigs | <ul style="list-style-type: none"> • Mini pumpkins/gourds • Various paint colors • Paint brushes |
| Activities | 1. Have children use foil to make a ball 2. Pour paint into small bowls or plates 3. Children can choose a paint color and dip the foil into the paint 4. Print the foil ball onto the paper creating small prints 5. Encourage creativity of what the child could make- a tree, an animal, etc 5. Allow to dry | 1. Have children place a paper into the large box top 2. Place drops of paint onto paper 3. Roll around pinecone or pinecones to create the paint art 4. Allow to dry | 1. Give children a chance to view real spider webs via technology 2. Have children put tape onto paper to mimic a spider web 3. Children can paint with brushes using watercolors to fill in the rest of the paper 4. When dry take off tape to reveal the spider web! | 1. Beforehand, make pumpkin play dough 2. Place various items in bowls or trays 3. Allow children to creatively create something fall related a tree for example 4. Encourage children to count, pattern, story tell, explore their senses, and use their fine motor skills while building an art structure | 1. Choose various pumpkins/gourds of sizes 2. Place various colors of paint onto a paper plate 3. Have children paint the pumpkin of their choosing or have children collaborate on a pumpkin 4. Allow pumpkin to dry! |
| Children learn to | Science Rocks: Use motion purposefully | Science Rocks: Explore how objects can move | Math Counts: Understand spatial relations and proportions | Science Rocks: Apply the concept of gravity/Explore how properties can change | Math Counts: Understand properties of specific shapes/Verbally compare and contrast items |



Music & Movement – October 2019




| Bright Horizons Early Education & Preschool | Week of 10/7 | Week of 10/14 | Week of 10/21 | Week of 10/28 |
|--|--|--|--|---|
| | Rhythm Stick Marching | Follow the Leader | Where is Thumbkin? | Alphabet Soup |
| Objectives | Children will reproduce rhythm/ beat with sticks while marching | Children will reproduce rhythm as created by classmates | Children will learn to sing the song with the accompanying finger play | Children will sing responses in the song and add the appropriate letter |
| Materials | Rhythm Sticks | Rhythm Sticks | Paper Drawing Utensil Scissors | Magnetic board Magnetic letters |
| Activities | Teacher begins by setting a beat with rhythm sticks. Children will reproduce the pattern and follow along. Have children march around the room | Allow children to take turn being the leader as they instruct their classmates on copying beats they create. | Teach the song Where is Thumbkin? Work with children to gain finger control and dexterity in pointing one finger at a time. Alternately, trace children's hands and cut out. Sing the song having children point to appropriate finger on cutout. | Pass out the letters to children Sing the following song. As each letter is called, children place it on the board. Alphabet Soup (to the tune of Hot Cross Buns) Alphabet soup (alphabet soup) In a pot (in a pot) You stir in the letters and then you boil it til it's good and done. Who's got the A? (We've got the A!) |
| Children learn to: | Well Aware: Coordinate multiple muscle movements | Our World: Take pride in their selves and in their abilities | Language Works: Strengthen and refine small muscle skills | Language Works: Identify letters |

Garden Works – October 2019

Lifecycle of a Pumpkin



|  Bright Horizons <small>Early Education & Preschool</small> | Toddlers | Young Preschool | Preschool | Kindergarten Prep | Kindergarten |
|---|--|--|---|--|---|
| Objectives | <ul style="list-style-type: none"> Investigate a pumpkin's life cycle and the phenomenon of its decomposing (seed, seeding, vine flower, green pumpkin, pumpkin) | | | | |
| Materials | <ul style="list-style-type: none"> Pumpkin Seeds Mini pumpkin with the top of the pumpkin removed Potting Soil Water | <ul style="list-style-type: none"> Pumpkin Seeds Mini pumpkin with the top of the pumpkin removed Potting Soil Water Orange felt pumpkins (variety of sizes) | <ul style="list-style-type: none"> Pumpkin Seeds Mini pumpkin with the top of the pumpkin removed Potting Soil Water Pegs, toy hammers, rubber bands, pumpkins | <ul style="list-style-type: none"> Pumpkin Seeds Mini pumpkin with the top of the pumpkin removed Potting Soil Water Pegs, toy hammers, rubber bands, pumpkins | <ul style="list-style-type: none"> Pumpkin Seeds Mini pumpkin with the top of the pumpkin removed Potting Soil Water Pegs, toy hammers, rubber bands, pumpkins |
| Activities | <ul style="list-style-type: none"> <i>Activity #1:</i> Planting Pumpkins Books: <ul style="list-style-type: none"> It's Pumpkin Day, Mouse! by Laura Numeroff and Felicia Bond | <ul style="list-style-type: none"> <i>Activity #1:</i> Planting Pumpkins <i>Activity #2:</i> Sort the pumpkins by size Books: <ul style="list-style-type: none"> Pete the Cat: Five Little Pumpkins by James Dean Penguin and Pumpkin by Salina Yoon | <ul style="list-style-type: none"> <i>Activity #1:</i> Planting Pumpkins <i>Activity #2:</i> Measure the circumference of a pumpkin <i>Activity #3:</i> Hammer pegs into a real pumpkin Books: <ul style="list-style-type: none"> It's Pumpkin Time by Zoe Hall | <ul style="list-style-type: none"> <i>Activity #1:</i> Planting Pumpkins <i>Activity #3:</i> Hammer pegs into a real pumpkin <i>Activity #4:</i> Observe and journal any changes of a pumpkin over time Books: <ul style="list-style-type: none"> Pumpkin Jack by Will Hubbell | <ul style="list-style-type: none"> <i>Activity #1:</i> Planting Pumpkins <i>Activity #3:</i> Hammer pegs into a real pumpkin <i>Activity #4:</i> Observe and journal any changes of a pumpkin over time Books: <ul style="list-style-type: none"> Pumpkin Jack by Will Hubbell Pumpkin Day! by Nancy Elizabeth Wallace |
| Children learn to | <ul style="list-style-type: none"> Formulate "why, what, and how" questions | <ul style="list-style-type: none"> Discriminate sizes: big vs. small, long vs. short | <ul style="list-style-type: none"> Strengthen and refine our small muscle skills | <ul style="list-style-type: none"> Strengthen and refine our small muscle skills Become familiar with the properties of living things | <ul style="list-style-type: none"> Strengthen and refine our small muscle skills Expand vocabulary |



Dance Class – October 2019



Preschool

Kindergarten Prep

Kindergarten

Objectives

To understand spatial awareness when dancing. Begin moving around the room off of dance spots and listening for what the next step will be.

To begin retaining choreography. Halloween dance will be taught to be shared with families.

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Dance Moves

- Tip toe (bourrée) walks
- Chassé around in a circle
- Échappé - jumping out

- Tip toe turn (bourrée, turne) across the floor, in small groups.
- Passé walks (leg bends with foot at the knee).
- Échappé and sauté combo taught.
- Second position (feet are separated turned out)

- Tip toe turn (bourrée, turne) across the floor, in small groups.
- Passé walks (leg bends with foot at the knee)
- Échappé and sauté combo taught.
- Second position (feet are separated and turned out)

Terminology

- Bourrée-a series of fast little steps
- Échappé – to escape, feet start in first position, jump out then jump back together.

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- Passé – when one foot goes up a supporting leg and the knee is bent.

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- Passé – when one foot goes up a supporting leg and the knee is bent.





Culinary Arts – October 2019

Children will do cooking projects in the classroom using Bright Horizons recipe cards or other recipes that connect with projects within the classroom.

Some recipes are not appropriate for all age groups. Additionally, some recipes may require substitutions for allergies.

Recipes for this month:

- BH Recipe – Ham & Jack Rollups
- Special Recipe – Green Bean Fries (see attached recipe)

Sign Language – October 2018



APPLE

The index finger of the “x” hand touches the cheek while the hand twists.



BANANA

The base hand is in the “1” position. The modified “x” hand slides down the side of the “1” index finger several times, as if peeling a banana.



BREAD

The base hand is held palm facing body and the open cupped action hand brushes up and down the back of the base hand several times.



MEAT

The index finger and the thumb grip the “5” hand near the last joint of the thumb, on the “meaty” part of the hand.



ORANGE

The claw hand closes several times, as if squeezing an orange.



WANT

Both flat hands are held with palms facing up, then the hands form claw shapes as they move in slightly toward the body.

from **SIGN with your BABY** ~ Dr. Joseph Garcia