

Curriculum: WATERFORD EARLY LEARNING: SMARTSTART

Waterford Early Learning: SmartStart combines independent online learning with in-class, hands-on activities for a comprehensive PreK experience. With online and in-class activities, SmartStart meets many national and state early learning standards. (See http://help.waterford.org/resources/ for specific correlations.)

OVERVIEW

CREATIVE EXPRESSION	 Dance & Movement Drama & Storytelling Music Visual Arts
HEALTH & PHYSICAL DEVELOPMENT	 Health & Safety: Healthy Habits, Nutrition & Meals, Safety Gross Motor Skills Fine Motor Skills
LANGUAGE	 Receptive Language Expressive Language Vocabulary
LITERACY	 Alphabet Knowledge: Alphabet, Name Digital Literacy Emergent Writing Phonological Awareness: Sound Awareness, Words & Compound Words, Rhyme, Syllables Phonological Awareness/Phonemic Awareness: Alliteration & Blending Print Knowledge Reading Comprehension
MATH & NUMERACY	 Numbers & Counting Numeracy & Number Relationships Operations & Algebraic Thinking: Logic & Mathematical Reasoning, Patterns & Classification Measurement & Data Geometry & Spatial Sense: Shapes, Position
SCIENCE & ENGINEERING	 Earth Science (Including Weather) Life Science: Animals, Humans, Living & Nonliving, Plants Physical Science & Engineering Scientific Inquiry: Curiosity, Observation, Investigation
SOCIAL & EMOTIONAL LEARNING	 Self Concept & Independence Emotional Functioning Social Awareness Social Skills
LEARNING MINDSET	 Self Regulation (Rules, Routines, and Responsibility) Executive Function (Attention, Flexibility, Inhibition, Memory, Persistence, and Problem-Solving)



WATERFORD EARLY LEARNING: SM	IARTSTART	
CREATIVE EXPRESSION		
DANCE & MOVEMENT		
 Starts and stops on cue Moves to a beat Moves in opposing ways (fast, slow, etc.) Maintains personal space while moving Uses props to create movements to music Uses movement to explore new knowledge Identifies a given body part and moves it on request 	 Uses dance or movement to explore or extend knowledge Imitates and mirrors movements Performs sequence of actions Participates in guided improvisation Makes observations about movement 	 Moves in general space while maintaining personal space Moves from one space to another in a variety of ways Uses body to respond to music Demonstrates respectful audience skills during performances
DRAMA & STORYTELLING		
 Acts out a familiar story Plays familiar real-life roles and situations Problem solves to sustain dramatic play Applies planning, persistence, and problem-solving to dramatic play Demonstrates respectful audience skills during storytelling 	 Creates props and materials from nonrepresentational materials Dramatizes familiar story Engages in pretend/dramatic play Participates in stories and dramatic performances from a variety of cultures 	 Makes observations about culturally diverse storytelling and dramatic performances Uses nonrepresentational materials to create props costumes, etc. Alters voice to act out different characters Makes connections with a dramatic experience
MUSIC		
 Explores and experiences a variety of music Explores a variety of musical forms, including rhythm instruments Experiences different music styles Plays instruments Starts and stops playing/singing on cue Identifies and explores contrasts in pitch (high and low) 	 Identifies and explores contrast in tempo (speed) Participates in read-alouds about music Performs music with expression Explores contrast in volume Claps or taps out rhythmic patterns Imitates or improvises sounds, patterns, or songs Participates in classroom music explorations 	 Expresses and explains musical preferences Identifies and explores contrasts in volume or dynamics Identifies musical elements Responds to instruction Makes/Creates musical instruments
VISUAL ARTS		
 Demonstrates safe and appropriate use and care of art materials Creates art that explores space Manipulates modeling clay Develops vocabulary to discuss art forms Develops art vocabulary Explores art materials Explores elements of art: texture, color, and line 	 Uses a variety of materials to create art Explores mixing colors Explores primary colors Acquires specialized art vocabulary Shows sensitivity to shades of meaning Creates art that explores texture Uses art to explore new or prior knowledge 	 Describes own work Engages in self-directed creative making Discusses intentions Recognizes/Discusses reasons for saving and caring for art Views art and displays Makes thoughtful observations about diverse artwork

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WATERFORD EARLY LEARNING: SM	ARTSTART	
HEALTH & PHYSICAL DEVELOPMENT HEALTH & SAFETY		
Healthy Habits		
 Washes hands with soap and warm water Practices good personal hygiene Explains basic sun safety Understands the importance of exercise Explains that germs make us sick Explains that people need exercise and rest 	 Understands the importance of avoiding germs to stay healthy, sneezes into shoulder, and uses tissues to blow nose Demonstrates awareness of cleanliness, including washing and bathing Independent dressing skills 	 Puts on shoes and socks Role-plays doctor visits and routine health screening Understands the importance of dental care; brushes teeth independently and effectively Dresses appropriately for the weather
Nutrition & Meals		
 Practices good table manners Participates in preparing healthy snacks Explores a variety of foods from different food groups 	Identifies and discusses healthy foodsExplores food groups	
Safety		
 Understands warning signs and symbols Uses safety goggles Identifies and interacts with community helpers Practices basic safety procedures Knows how to call 911 for help Role-plays and discusses potential dangers 	 Practices and follows class emergency procedures Practices identifying trustworthy adults Practices saying "No!" and seeking help when appropriate Understands that body parts covered by a bathing suit are private 	 Displays a healthy respect for traffic and parking lots Identifies and warns others of potential dangers Demonstrates awareness of universal choking sign Discusses water safety
GROSS MOTOR SKILLS		
 Develops muscular strength and coordination Develops balance Moves and stops with control over speed and direction Maintains balance while changing direction or position 	 Hops, jumps, gallops (coordinated large-muscle locomotion) Demonstrates good balance control Demonstrates strength and coordination Walks on balance beam, curb or log 	 Catches, kicks, and bounces ball (coordinated temporal and spatial movements) Reaches, twists, turns, and bends (axial movements) Pedals, climbs, pumps on swing (coordinated large muscle)
FINE MOTOR SKILLS		
 Holds scissors properly Pours liquids accurately Cuts along a straight line Cuts out shapes Coordinates hand-eye movement 	 Sorts data by size Practices pincer grip and scissor skills Strengthens and controls hand muscles by manipulating objects 	



WATERFORD EARLY LEARNING: SMARTSTART		
 RECEPTIVE LANGUAGE Follows whole-group instruction Shows comprehension Comprehends simple time intervals Turns and talks 	 Answers Yes or No questions Plays follow-the-leader Follows instructions that specify all and none/not any Comprehends sequential language 	 Answers who, what and why questions verbally Understands multi-phrase sentences Participates in games
 EXPRESSIVE LANGUAGE Uses agreed upon conventions during whole- and small-group discussions (raises hand, waits to be called on, stays on topic, etc.) Practices introducing self Uses descriptive language Uses past tense Masters letter sounds Extends sentences 	 Talks self through new or difficult tasks Uses pronouns I, You, and My correctly Describes familiar objects Uses common verbs Uses prepositions like "on" and "off" Uses expressive language Combines sentences to indicate sequencing Participates in dialogic reading 	 Possesses social conversation skills Adapts speech to context Offers clear explanations Adds drawings for additional detail Uses comparative speech Waits until a teacher finishes a conversation with an adult before talking Gives directions and narrates activities
VOCABULARYDescribes familiar things with detail	Discusses new words in relation to known words	Comprehends and uses classroom language, like
 Describes familiar things with detail Asks and answers questions about unknown/ unfamiliar words Uses a new word to describe or rephrase Makes real world connections with vocabulary words Uses new words while acting out a story Uses a new word to describe an action With support, asks and answers questions about unfamiliar words in read-alouds Uses a new word in a discussion 	 Discusses new words in relation to known words and categories Uses appropriate sentence structure Spontaneously uses new words in play Demonstrates understanding of new words Describes new objects by using the name of the object and what it does Uses new vocabulary to describe events Identifies 1-2 synonyms for very familiar words Predicts meaning of new words from context Uses new vocabulary to identify favorite part 	 Comprehends and uses classroom language, like compare Makes real-life connections between words and their use Describes field trip using content words Identifies common antonyms Uses content-specific words Identifies which object doesn't belong Understands and uses academic language Uses category labels (part/whole, object/function, object/location)



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LITERACY		
ALPHABET KNOWLEDGE		
Alphabet		
 Demonstrates understanding of letters and the alphabet sequence Recognizes and names capital letters Sings the alphabet song Recognizes and forms capital letters 	 Matches short vowel sound to letter Participates in Alphabet Knowledge Centers Recognizes lowercase letters Matches capital and lowercase versions of the same letter 	
Name		
Recognizes own nameDemonstrates name recognition		
DIGITAL LITERACY		
 Order letters to spell name Accesses and navigates applications Uses the computer to find information Knows how to delete and change computer entries Uses basic technology terms in everyday speech 	 Understands that passwords should be private Practices telling a trusted adult if something unexpected or uncomfortable happens With guidance, shares and discusses digital products 	
EMERGENT WRITING		
 Demonstrates proper pencil grip Forms letters properly Experiments with marks meant to convey meaning Writes for a growing variety of purposes 	 Writes/illustrates/dictates stories and/or journal entries Composes signs or lists as a part of play activities Writes invitation, birthday, or thank you cards Writes and/or dictates about special events or field trips, real or imagined 	
PHONOLOGICAL AWARENESS		
Sound Awareness		
 Identifies, discriminates between, and sequences/ orders sounds Explores medial sound awareness 	 Writes increasingly sophisticated text, including invented spelling Discriminates between sounds 	
Words & Compound Words		
Segments short sentences into wordsWith support, slaps out words in a sentenceBlends two spoken words into a compound word	 Blends compound words Segments compound words Sorts words into short and long words 	

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Rhyme		
 Demonstrates rhyme awareness Identifies spoken rhymes Participates in rhyme play Supplies rhyming words 	 Discriminates between rhyme and non-rhyme Produces nonsense rhymes Participates in rhyming games 	
Syllables		
Sorts words into short and long wordsBlends syllables into a whole wordSegments syllables in spoken words	Blends syllablesSegments syllablesBlends 2 or 3 syllables into a word	
PHONOLOGICAL AWARENESS/PHONEMIC AW	/ARENESS	
Alliteration & Blending		
 Demonstrates initial sound awareness Tells if words begin with the same sound Onset-Rime Blends onset (initial consonant or consonants) and rime (vowel to end) into familiar one-syllable words Initial sounds 	 Hears two words and tells if they begin with the same sound Explores final sound awareness Final sounds Demonstrates final sound awareness Medial sounds 	 Explores medial sound awareness Blending phonemes Blends phonemes to make familiar one-syllable words Blends phonemes to make words
PRINT KNOWLEDGE		
 Reads daily schedule and calendar Understands that print carries a message Writes daily message as class Follows words from left-to-right, top-to-bottom, page-by-page (Print Directionality) Understands that letters are grouped to form words, separated by spaces 	 Points to word in story being read Explains purpose and use of book covers Understands functions of authors and illustrators Print concepts Recognizes environmental print 	 Makes one-to-one word substitutions in stories and poems Capitalizes the pronoun "I" Recognizes the power word "I" Demonstrates understanding of print conventions
READING COMPREHENSION		
 Maintains engagement during group read-alouds for 15-20 minutes Uses evidence to identify/analyze/predict a character's feelings, intentions, or behavior Listens and participates in interactive read-alouds 	 Listens to repeated readings of favorite books Makes a connection between new information and prior knowledge Uses real-world vocabulary Predicts based on narrative pattern 	Constructs meaning based on evidenceRelates own experiences to facts read in books



WATERFORD EARLY LEARNING: SMARTSTART MATH & NUMERACY		
 NUMERACY & NUMBER RELATIONSHIPS Understands that each successive number represents one more Understands that each successive number name refers to a quantity that is one larger Orders quantities Identifies numbers plus one Compares quantities 	 Explores composing and decomposing numbers Identifies numbers in relation to benchmarks (5 and 10) Composes and decomposes numbers Identifies number pairs that total a given sum Identifies the relationship of one quantity or number with another as more, less/fewer, or equal 	 Identifies relationship between numerals as more or less Identifies which quantity is less Explores numbers as 10s and 1s Explores groups of 10s and 1s Identifies numbers plus/minus 1 and 2
OPERATIONS & ALGEBRAIC THINKING		
 Logic & Mathematical Reasoning Counts on from a specified number With support, counts on from a number greater than 1 Finds the quantity that must be added to make 10 by using objects or drawings 	 Uses mathematical language Uses logic/mathematical reasoning to solve a problem Uses concrete models for taking away objects 	 Finds the quantity that must be added to make 5, then 10, by using objects or drawings Demonstrates or explains reasoning used to solve problem



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Patterns & Classification		
 Matches similar objects, using the words "same" and "different" Sorts objects by attribute Sorts objects by multiple attributes Creates own repeating patterns 	 Duplicates and extends simple pattern Claps or marches in time to music to show recognition of pattern Matches/Matching 	
MEASUREMENT & DATA		
 Uses symbols to represent data on a graph Places concrete objects on a chart Compares data on charts or graphs Recognizes and compares heights, lengths, or sizes Orders objects by height or weight 	 Measures using the same unit Recognizes and compares weights of objects and people Uses mathematical language to describe data: more, less, longer, shorter 	 Recognizes and compares capacity Orders 2-5 objects based on measurable attributes
GEOMETRY & SPATIAL SENSE		
Shapes		
 Names and describes basic shapes (circle, square, triangle, and rectangle) in terms of number and length of sides Builds shapes from components Explores properties of shapes 	 Analyzes, compares, and sorts two- and three- dimensional shapes and objects in different sizes Breaks apart shapes Slides, flips, and turns shapes to demonstrate that they remain the same 	 Breaks apart shapes to make real-world objects and other shapes Puts shapes together to make real-world objects and other shapes
Position		
 Comprehends and uses positional words Finds solutions for spatial problems with blocks, LEGOs, etc. 	Comprehends spatial relationshipsUses position words correctlyExplores spatial problems	



WATERFORD EARLY LEARNING: SMARTSTART		
SCIENCE & ENGINEERING		
EARTH SCIENCE (INCLUDING WEATHER)		
 Explores the relationship between sunlight, shade, and sun Explores the properties of light Explores the relationship between sunlight, shade, and shadows 	 Sunlight creates light and warmth Explores the properties and uses of water Explores water cycle Introduced to the water cycle 	 Understands importance of clean drinking water Explores properties of clouds
LIFE SCIENCE		
Animals		
 Distinguishes between plants and animals Identifies characteristics of vertebrates Identifies characteristics of mammals Identifies characteristics of birds Identifies characteristics of fish 	 Describes characteristics and habitat of amphibians Identifies characteristics of amphibians Identifies characteristics of reptiles Identifies insects Identifies characteristics of invertebrates 	 Identifies insect characteristics Identifies characteristics of spiders Identifies the characteristics of worms
Humans		
Demonstrates knowledge of basic body parts and functions		
Living & Nonliving		
 Observes that living things move and grow Observes that living things need water, air, and nutrients 	Observes living things that move and growUnderstands the needs of living thingsKnows that living things grow	
Plants		
 Distinguishes between plants and animals Identifies plant uses Understands that plants need water, nutrients, and sun 	Identifies plant parts (seed, stem, roots, leaves)Identifies ways that plants are useful to people	
PHYSICAL SCIENCE & ENGINEERING		
 Solves structural problems Explores properties of reflective/non-reflective objects Understands that objects have properties: float or sink 	 Explores relationship between form and function Recognizes and explores cause and effect relationships Understands weight as a characteristic of objects 	



SCIENTIFIC INQUIRY		
Curiosity		
 Uses scientific practice terms (investigate) Understands that scientists ask and answer questions With support, helps plan an investigation With support, plans the steps of an investigation 	 Uses descriptive words with precision Makes a prediction Uses scientific terms like gills and vertebrate with precision 	 Reviews and documents prior knowledge With support, lists and acquires materials for investigation
Observation		
 Use senses to observe and gather information Uses sight to make observations Uses hand lens Explore sense of sight Uses sense of hearing to make observations Explores the sense of hearing 	 Makes observations based on the sense of taste Uses sounds to make observations Explores the sense of touch Uses touch to make observations Uses sense of smell Uses sense of taste 	 Uses thermometer to show similarities and differences Uses observational tools Practices using observational tools, including a stethoscope Uses digital tools to make observations
Investigation		
 Collects, describes, and records information Sorts plants and animals With help, measures and compares lengths Explains data and draws conclusions Identifies data patterns (plants have stems, roots, and leaves) Uses three-dimensional models Represents data with a picture or diagram Constructs three-dimensional models 	 Sorts animals into groups based on body parts and functions Gathers and represents data with chart or graph Sorts items into groups by attributes Uses senses and simple tools to gather and represent data Represents data mathematically Performs an experiment Reports data and draws conclusions 	 Represents data with a 3D model Uses time to quantify similarities and differences Gathers and records data with text Uses measurement tools to quantify similarities and differences in weight Measures and compares capacity
SOCIAL & EMOTIONAL LEARNING		
SELF CONCEPT & INDEPENDENCE		
 Reflects on own actions and efforts Chooses and plans activities according to personal interests and preferences Accesses and uses SmartStart independently Makes choices and engages in independent activities 	 Demonstrates self-efficacy Identifies personal characteristics, preferences, thoughts, and feelings Maintains designated personal space Monitors others during movement Describes self in terms of specific skills, talents, and competencies 	 Voices choices and opinions, including appropriate refusals Asks adults or peers for help when appropriate Shows satisfaction or seeks acknowledgment at completion



EMOTIONAL FUNCTIONING		
 Uses feeling words Labels character emotions Enjoys participating in activities that stimulate positive emotions Assigns appropriate emotions to facial expressions of sadness, anger, surprise, and happiness 	 Recognizes and accurately labels emotions Uses words to express feelings Demonstrates increased ability to control and resolve emotions 	 Uses appropriate strategies to decrease level of distress Controls/Regulates and resolves emotions Identifies characters' feelings
SOCIAL AWARENESS		
 Participates in group activities Aware of school Follows food from farm to table Identifies self as a member of a class Role-plays community businesses, like restaurants Explores the use of money Communicates effectively with speakers of other languages, e.g., gestures and facial expressions Compares own and others' preferences Participates in voting Explores representations of familiar environments Engages with a variety of languages Comprehends previously learned words in a new language 	 Identifies members of household and their roles Identifies family members and their roles Shares family stories and traditions Participates in class discussions of varying cultures and traditions Recognizes changes in self and others over time Explores buying and selling Understands that people work for pay Uses simple greetings, words, and phrases in language other than own Identifies self as a member of family Uses visual cues to identify how other children are feeling 	 Explores physical representations of neighborhood Recognizes change over time Learns about community Identifies similarities and differences between self and classmates Asks questions to discover others' perspectives Discusses the meaning and proper care of nationa flags Votes to make a decision as a class or small group Develops awareness of physical features of environment Looks forward to and participates in special class and school events
SOCIAL SKILLS		
 Demonstrates a desire to be helpful Brainstorms/proposes multiple solutions Greets teacher in the morning and says goodbye when leaving Participates in group activities, tasks, and play Takes turns Practices play skills Practices meeting and greeting people Practices graceful refusals/gives and accepts graceful refusals Practices kindness Applies friendship skills 	 Practices empathy Demonstrates awareness of social conventions Recognizes and proposes solutions to social problems Recognizes and describes social and academic problems Attempts to resolve social problems by sharing Chooses to work with a friend Interacts meaningfully with a variety of playmates Demonstrates kindness and concern for others Uses please, thank you, and excuse me, as appropriate 	 Respects teacher's authority Actively seeks out play partners Follows the lead of others when joining ongoing play Follows conflict resolution steps with teacher's guidance Identifies and attempts to resolve social problems Plays games with rules Shows evidence of enjoying other children Expresses pleasure at spending time with friends



WATERFORD EARLY LEARNING: SMARTSTART		
LEARNING MINDSET		
 SELF-REGULATION (RULES, ROUTINES, AND F Follows arrival routine with increasing independence Demonstrates sense of day's sequence of activities Demonstrates awareness of schedule and sequence Recognizes the reason for rules at home and at school Participates in the development of classroom rules Respects others' work spaces and time with shared materials 	 RESPONSIBILITY) Begins cleanup at teacher's signal Responds to teacher signals Cleans up after self Abides transitions Follows center instructions Cleans up and puts materials in proper places Follows arrival and dismissal routines with increasing independence Familiar with classroom routines 	 Spontaneously adapts behavior to context Assumes responsibilities of a class member Describes effect of own behavior on others Demonstrates increasing sensitivity to context and consequence Is truthful
	ITY, INHIBITION, MEMORY, PERSISTENCE, AND	PROBLEM-SOLVING
 Eager to learn about and discuss a range of topics, ideas, and activities Waits for turn or permission before communicating (doesn't interrupt) Persists at tasks that are difficult or disliked Manages transitions Delays gratification Engages in challenging activities Demonstrates ability to stop responses Listens to other children 	 Demonstrates curiosity and openness to new ideas and strategies Demonstrates flexibility Attempts to match actions with words Corrects teacher who makes a "mistake" Inhibits (stops) impulsive responses Waits for materials to be distributed Waits for turn with desired toy or activity Eager to try new things/activities Willing to challenge self 	 Willing to participate in new activities Makes needs known in a socially acceptable way Asks for help Demonstrates initiative Attends to peer responses Recalls details Maintains concentration during Circle Time Maintains absorption in self-selected task Willing to participate in new experiences