

Connect to Standards

IPTV's **Dantastic You Do's** use [McREL standards](#) as the educational foundation for the series. [McREL](#) has more than 30 years of experience providing technical assistance and consultation on school improvement, the development of standards-based programs, student assessment, decision making and evaluation, strategic planning and leadership development.

Depending on the age of the child and the activities chosen, connections can be made to a variety of standards such as the ones selected below.

Theatre

Standard 2. Uses acting skills

Level Pre-K (Grades Pre-K)

2. Engages in both fantasy dramatic play and dramatic play that is based on real experiences

Level II (Grades K-4)

2. Uses variations of locomotor and non locomotor movement and vocal pitch, tempo, and tone for different characters

Standard 3. Designs and produces informal and formal productions

Level Pre-K (Grades Pre-K)

1. Create props out of available resources to support dramatic play

Music

Standard 7. Understands the relationship between music and history and culture

Level Pre-K (Grades Pre-K)

1. Knows that music is a part of daily life

Visual Arts

Standard 1. Understands and applies media, techniques, and processes related to the visual arts

Level Pre-K (Grades Pre-K)

1. Experiments with a variety of color, textures, and shapes
2. Creates three-dimensional structures and arrangements using concrete materials or manipulatives (e.g., blocks)
3. Uses a variety of basic art materials (e.g., paints, crayons, clay, pencils) to create works of art and express ideas and feelings
4. Knows the names of a basic of colors

Level II (Grades K-4)

1. Knows the differences between art materials (e.g., paint, clay, wood, videotape), techniques (e.g., overlapping, shading, varying size or color), and processes (e.g., addition and subtraction in sculpture, casting and constructing in making jewelry)
4. Uses art materials and tools in a safe and responsible manner

Standard 4. Understands the visual arts in relation to history and cultures

Level Pre-K (Grades Pre-K)

1. Know that art exists from a variety of places and periods of time

Behavioral Studies

Standard 1. Understands that group and cultural influences contribute to human development, identity, and behavior

Level I (Grades K-2)

3. Understands that people often choose to do the same kinds of things that their friends do (e.g., dress, talk, act), but that people also often choose to do certain things their own ways

Health

Standard 5. Knows essential concepts and practices concerning injury prevention and safety

Level Pre-K (Grades Pre-K)

6. Knows the safe and proper use of classroom materials

Standard 6. Understands essential concepts about nutrition and diet

Level Pre-K (Grades Pre-K)

1. Knows that some foods are more nutritious than others

Standard 10. Understands the fundamental concepts of growth and development

Level Pre-K (Grades Pre-K)

1. Knows the names and locations of some body parts (e.g., head, eyes, eyebrows, nose, mouth, hair, arms, hands, legs, feet)

Language Arts

Standard 1. Uses the general skills and strategies of the writing process

Level Pre-K (Grades Pre-K)

1. Knows that writing, including pictures, letters, and words, communicates meaning and information
2. Uses drawings to express thoughts, feelings, and ideas
7. Uses writing tools and materials (e.g., pencils, crayons, chalk, markers, rubber stamps, computers, paper, cardboard, chalkboard)

Standard 5. Uses the general skills and strategies of the reading process

Level Pre-K (Grades Pre-K)

1. Knows that print and written symbols convey meaning and represent spoken language
3. Understands that illustrations and pictures convey meaning

Standard 8. Uses listening and speaking strategies for different purposes

Level Pre-K (Grades Pre-K)

2. Uses new vocabulary to describe feelings, thoughts, experiences, and observations
3. Speaks expressively (e.g., uses different voices for various characters)
4. Uses descriptive language (e.g., color words; size words, such as bigger, smaller; shape words)
5. Tells stories based on personal experience or make-believe
6. Asks questions to obtain information
7. Answers simple questions
8. Follows conversation rules (e.g., taking turns, making relevant comments; staying on topic) when talking with peers and adults
9. Creates or acts out familiar stories, songs, rhymes, and plays in play activities
10. Retells a story with attention to the sequence of main events
11. Listens for a variety of purposes (e.g., to gain and share information, to perform a task, for enjoyment, to learn what happened in a story, to converse with an adult or peer)
12. Understands messages in conversations (e.g. responds differently based on purpose of messages in conversation; attends and responds to conversations)
13. Follows one- and two-step directions
14. Understands basic conversational vocabulary
15. Discriminates among the sounds of spoken language
16. Knows rhyming sounds and simple rhymes (e.g., identifies rhymes and rhyming sounds)
17. Knows that words are made up of sounds (e.g., that words can begin alike, sound alike)
18. Knows that words are made up of syllables
19. Listens to a variety of fiction, nonfiction, poetry, drama, rhymes, and songs

Level I (Grades K-2)

1. Makes contributions in class and group discussions (e.g., reports on ideas and personal knowledge about a topic, initiates conversations, connects ideas and experiences with those of others)
2. Asks and responds to questions (e.g., about the meaning of a story, about the meaning of words or ideas)
3. Follows rules of conversation and group discussion (e.g., takes turns, raises hand to speak, stays on topic, focuses attention on speaker)

4. Uses different voice level, phrasing, and intonation for different situations (e.g., small group settings, informal discussions, reports to the class)
5. Uses level-appropriate vocabulary in speech (e.g., number words; words that describe people, places, things, events, location, actions; synonyms, antonyms; homonyms, word analogies, common figures of speech)
6. Gives and responds to oral directions

Standard 9. Uses viewing skills and strategies to understand and interpret visual media

Level I (Grades K-2)

1. Understands the main idea or message in visual media (e.g., pictures, cartoons, weather reports on television, newspaper photographs, visual narratives)

Standard 10. Understands the characteristics and components of the media

Level I (Grades K-2)

1. Knows the various types of media (e.g., newspapers, radio, television, billboards)
2. Knows that there are different types of media categories (e.g., news programs, sports programs, commercials)
3. Understands that there are common conventions used in media (e.g., the layout of a newspaper, including headlines, photographs, and different sections; how theme music, sound effects, titles, and graphics represent the beginning and ending of a television program)
4. Understands that media messages and products are created by people (e.g., individuals and groups) and represent real and imaginary experience

Life Skills: Life Work

Standard 1. Makes effective use of basic tools

Level I (Grades K-2)

1. Uses hammers, screwdrivers, clamps, rulers, scissors, and hand lenses; operates ordinary audio equipment
2. Assembles, describes, takes apart, and reassembles constructions using interlocking blocks, erector sets and the like
3. Makes something out of paper, cardboard, wood, plastic, metal, or existing objects that can be used to perform a task

Life Skills: Self-Regulation

Standard 5. Maintains a healthy self-concept

Level Pre-K (Grades Pre-K)

1. Displays positive self-esteem and confidence in abilities
2. Shows a desire to be independent (e.g., makes own decisions, separates from parents without stress)
3. Shows pride in accomplishments
4. Feels comfortable around peers and adults (e.g., accepts comfort and guidance, seeks help when needed)

Level IV (Grades K-12)

1. Has confidence in one's own abilities, including the ability to succeed
2. Uses techniques (e.g., recalling positive things others have said about oneself) to remind self of strengths
3. Uses techniques to offset the negative effects of mistakes (e.g., sees mistakes as learning opportunities)
5. Uses positive affirmations and self-talk to improve sense of self, build confidence, and complete difficult tasks
10. Uses high self-esteem body language

Life Skills: Thinking and Reasoning

Standard 3. Effectively uses mental processes that are based on identifying similarities and differences

Level I (Grades K-2)

1. Identifies the similarities and differences between persons, places, things, and events using concrete criteria
2. Classifies things in terms of number, shape, texture, size, weight, color, motion, sound, and behavior
3. Finds simple patterns in the surrounding events and objects

Standard 4. Understands and applies basic principles of hypothesis testing and scientific inquiry
Level I (Grades K-2)

1. Understands that changing one thing sometimes causes changes in something else and that changing the same thing in the same way usually has the same result

Standard 5. Applies basic trouble-shooting and problem-solving techniques
Level I (Grades K-2)

1. Identifies simple problems and possible solutions (e.g., ways to make something work better)

Standard 6. Applies decision-making techniques
Level I (Grades K-2)

1. Makes and defends decisions about daily activities (e.g., what books to read)

Life Skills: Working with Others

Standard 1. Contributes to the overall effort of a group

Level Pre-K (Grades Pre-K)

1. Participates in a variety of group and individual activities, tasks, and play
2. Cooperates with others in play and group activities

Mathematics

Standard 2. Understands and applies basic and advanced properties of the concepts of numbers

Level Pre-K (Grades Pre-K)

1. Understands that numbers represent the quantity of objects
2. Counts by ones to ten or higher
3. Counts objects
4. Understands one-to-one correspondence
5. Understands the concept of position in a sequence (e.g., first, last)
6. Knows the written numerals 0-9
7. Knows the common language for comparing quantity of objects (e.g., "more than," "less than," "same as")
8. Understands that a whole object can be separated into parts
9. Knows that numbers are used in real-world situations

Level I (Grades K-2)

1. Understands that numerals are symbols used to represent quantities or attributes of real-world objects
2. Counts whole numbers (i.e., both cardinal and ordinal numbers)
3. Understands symbolic, concrete, and pictorial representations of numbers (e.g., written numerals, objects in sets, number lines)
4. Understands basic whole number relationships (e.g., 4 is less than 10, 30 is 3 tens)
5. Understands the concept of a unit and its subdivision into equal parts (e.g., one object, such as a candy bar, and its division into equal parts to be shared among four people)

Standard 3. Uses basic and advanced procedures while performing the processes of computation

Level Pre-K (Grades Pre-K)

1. Knows that the quantity of objects can change by adding or taking away objects

Level I (Grades K-2)

3. Understands basic estimation strategies (e.g., using reference sets, using front-end digits) and terms (e.g., "about," "near," "closer to," "between," "a little less than")

Standard 4. Understands and applies basic and advanced properties of the concepts of measurement

Level Pre-K (Grades Pre-K)

1. Understands basic concepts of time (e.g., today, tomorrow, morning, evening) and the sequence of various events (e.g., what comes after lunch)
2. Measures objects with non-standard tools (e.g., string, hands, footsteps, unifix cubes, tiles)

3. Estimates quantities in real-world situations
4. Orders objects qualitatively by measurable attribute (e.g., smallest to largest, lightest to heaviest, shortest to longest)
5. Knows the common language of measurement (e.g., "big," "little," "long," "short," "light," "heavy")
6. Knows that different sized containers will hold more or less

Level I (Grades K-2)

1. Understands the basic measures length, width, height, weight, and temperature

Standard 5. Understands and applies basic and advanced properties of the concepts of geometry

Level Pre-K (Grades Pre-K)

1. Knows basic geometric language for naming shapes (e.g., circle, triangle, square, rectangle)
2. Understands the common language used to describe position and location (e.g., "up," "down," "below," "above," "beside," "inside," "outside")
4. Understands that a shape's orientation in space can change
5. Sorts and groups objects by attributes (e.g., shape, size, color)

Level I (Grades K-2)

1. Understands basic properties of (e.g., number of sides, corners, square corners) and similarities and differences between simple geometric shapes
2. Understands the common language of spatial sense (e.g., "left," "right," "horizontal," "in front of")

Physical Education

Standard 1. Uses a variety of basic and advanced movement forms

Level Pre-K (Grades Pre-K)

1. Coordinates movements in space to accommodate objects and boundaries
2. Demonstrates a sense of balance (e.g., stands on one foot, walks on a balance beam)
3. Coordinates body movement in a variety of activities (e.g., climbing stairs, walking in different directions, jumping forward, galloping)
4. Demonstrates coordinated movements in kicking, catching, and throwing
5. Coordinates movement with a tempo or rhythm (e.g., marching to music, dancing)
6. Demonstrates strength and control to accomplish a variety of tasks
7. Uses hand-eye coordination to complete tasks (e.g., string beads, do puzzles, copy and trace a variety of figures)
8. Uses manual coordination to control tools (e.g., pencils, crayons, scissors) and manipulate objects (e.g., zippers, buttons, snaps)

Level I (Grades K-2)

1. Uses a variety of basic locomotor movements (e.g., running, skipping, hopping, sliding)
2. Uses a variety of basic non-locomotor skills (e.g., bending, twisting, stretching, turning, lifting)
3. Uses a variety of basic object control skills (e.g., underhand and overhand throw, catch, hand dribble, foot dribble, kick and strike)
4. Uses simple combinations of fundamental movement skills (e.g., locomotor, non-locomotor, object control, body control, and rhythmical skills)
5. Uses control in weight-bearing activities on a variety of body parts (e.g., jumping and landing using combinations of one and two foot take-offs and landings)
6. Uses control in balance activities on a variety of body parts (e.g., one foot, one hand and one foot, hands and knees, headstands)
7. Uses control in travel activities on a variety of body parts (e.g., travels in backward direction and changes direction quickly and safely, without falling; changes speeds and directions in response to various rhythms; combines traveling patterns to music)
8. Uses smooth transitions between sequential motor skills (e.g., running into a jump)
9. Uses locomotor skills in rhythmical patterns (e.g., even, uneven, fast, and slow)

Standard 4. Understands how to monitor and maintain a health-enhancing level of physical fitness

Level Pre-K (Grades Pre-K)

1. Exercises through play and group games to increase strength, endurance, and flexibility

Level I (Grades K-2)

- Engages in basic activities that cause cardiorespiratory exertion (e.g., running, galloping, skipping, hopping)
- Knows the physiological indicators (e.g., perspiration, increased heart and breathing rate) that accompany moderate to vigorous physical activity
- Engages in activities that develop muscular strength and endurance (e.g., climbing, hanging, taking weight on hands)

Science

Standard 5. Understands the structure and function of cells and organisms

Level Pre-K (Grades Pre-K)

- Knows that living things and nonliving objects are different
- Knows that living things go through a process of growth and change

Level I (Grades K-2)

- Knows the basic needs of plants and animals (e.g., air, water, nutrients, light or food, shelter)
- Knows that plants and animals have features that help them live in different environments

Standard 6. Understands relationships among organisms and their physical environment

Level Pre-K (Grades Pre-K)

- Understands that living things have similar needs (e.g., water, food)

Level I (Grades K-2)

- Knows that plants and animals need certain resources for energy and growth (e.g., food, water, light, air)
- Knows that living things are found almost everywhere in the world and that distinct environments support the life of different types of plants and animals

Standard 7. Understands biological evolution and the diversity of life

Level Pre-K (Grades Pre-K)

- Knows simple ways that living things can be grouped (e.g., appearance, behavior, plant, animal)

Level I (Grades K-2)

- Knows that some kinds of organisms that once lived on Earth have completely disappeared (e.g., dinosaurs, trilobites, mammoths, horsetail trees)
- Knows that there are similarities and differences in the appearance and behavior of plants and animals

Standard 8. Understands the structure and properties of matter

Level Pre-K (Grades Pre-K)

- Knows vocabulary used to describe some observable properties (e.g., color, shape, size) of objects
- Sorts objects based on observable properties
- Knows that the physical properties of things can change

Level I (Grades K-2)

- Knows that different objects are made up of many different types of materials (e.g., cloth, paper, wood, metal) and have many different observable properties (e.g., color, size, shape, weight)
- Knows that things can be done to materials to change some of their properties (e.g., heating, freezing, mixing, cutting, dissolving, bending), but not all materials respond the same way to what is done to them

Standard 12. Understands the nature of scientific inquiry

Level Pre-K (Grades Pre-K)

- Uses the senses to make observations about living things, nonliving objects, and events
- Records information collected about the physical world (e.g., in drawings, simple data charts)
- Uses simple tools (e.g., eyedropper, magnifying glasses) to gather information
- Conducts simple investigations to solve a problem or answer a question
- Asks questions about observations
- Develops predictions and explanations based on previous experience
- Understands simple cause-and-effect relationships based on previous experience

Level I (Grades K-2)

- Knows that learning can come from careful observations and simple experiments

2. Knows that tools (e.g., thermometers, magnifiers, rulers, balances) can be used to gather information and extend the senses

Technology

Standard 1. Understands the structure and function of cells and organisms

Level Pre-K (Grades Pre-K)

Standard 1. Knows the characteristics and uses of computer hardware and operating systems

Level Pre-K (Grades Pre-K)

1. Knows names of basic computer hardware (e.g., mouse, keyboard, touch screen)
2. Uses basic computer hardware, (e.g., hunts for specific keys on keyboard, uses mouse)

Level I (Grades K-2)

1. Knows basic computer hardware (e.g., keyboard and mouse, printer and monitor, hard and floppy disk, case for the CPU [central processing unit])

Standard 2. Knows the characteristics and uses of computer software programs

Level Pre-K (Grades Pre-K)

1. Understands that actions can control software programs
2. Uses computers for a variety of purposes (e.g., playing games, listening and interacting with storybooks, working with numbers, drawing)

Level I (Grades K-2)

1. Types on a computer keyboard, using correct hand and body positions
2. Knows basic distinctions among computer software programs, such as word processors, special purpose programs, and games

Standard 3. Understands the relationships among science, technology, society, and the individual

Level Pre-K (Grades Pre-K)

1. Uses tools (e.g., hammer, fax, email, telephone) that help humans do work and solve problems

Level I (Grades K-2)

1. Knows ways that technology is used at home and at school (e.g., paging systems, telephones, VCRs)

Standard 4. Understands the nature of technological design

Level Pre-K (Grades Pre-K)

1. Knows that materials and equipment can be combined in different ways to make something new (e.g., building a tent using a sheet around a table, using molding clay to make pretend food)
2. Knows ways to communicate design ideas (e.g., pictures, models)
3. Knows that some things are natural and others are human made

Level I (Grades K-2)

2. Knows that tools have specific functions, such as to observe, measure, make things, and do things better or more easily; selecting the right tool makes the task easier
3. Knows that people are always inventing new ways to solve problems and accomplish work (e.g., a computer is a machine that helps people work and play)
4. Knows that planning is an important part of the design process
5. Knows that new objects can be created out of physical materials (e.g., paper, cloth)
6. Knows that because there may be multiple solutions to a design problem, each appropriate to different situations, many creative ideas can be useful

Standard 5. Understands the nature and operation of systems

Level I (Grades K-2)

1. Knows that most things are made of parts and they may not work if some parts are missing
2. Knows that when parts are put together, they can do things that they couldn't do by themselves
3. Understands how some elements of simple systems work together (e.g., people in a restaurant, parts of a bicycle)

Standard 6. Understands the nature and uses of different forms of technology

Level Pre-K (Grades Pre-K)

1. Knows different materials (e.g., glass, metal, plastic, wood) and their uses
2. Knows that for certain purposes some materials work better than others