In the spring of 2006, a team of Illinois educators created the new Illinois Alternate Assessment (IAA) Frameworks. The purpose of the frameworks is to prioritize the skills and knowledge from the Illinois Learning Standards for students with the most significant cognitive disabilities, in order to develop a new Illinois Alternate Assessment. The Illinois State Board of Education (ISBE) contracted Pearson Educational Measurement (PEM), and their subcontractor partners, Beck Evaluation and Testing Associates, Inc. (BETA), and the Inclusive Large Scale Standards and Assessment (ILSSA) group, to develop the new IAA in grades three through eight and 11 for Reading and Mathematics; in grades four, seven, and 11 for Science; and in grades three, five, six, eight, and 11 for Writing. BETA's responsibilities include providing event-based assessment activities linked to the IAA Frameworks, developing the assessment rubric, and incorporating principles of Universal Design for Learning. ILSSA's responsibilities include facilitating the development of the IAA Frameworks and providing state-wide staff development on how to access grade-level curriculum. Pearson Learning Group (PLG) is a division of PEM, and their responsibilities include providing a customized on-line scoring tool along with training to use this feature.

During the framework development meetings, educators were divided into development teams based on both content area and grade level focus. Addressing reading, writing, mathematics and science, each content area had one development team for grades three through five, one for grades six through eight, and one for grade 11. Each team consisted of at least one general education teacher, one special education teacher, and one content expert. The process used by the development teams to create the Illinois Alternate Assessment Frameworks is as follows:

The development teams reviewed each of the assessment objectives (statements coded with numbers such as 11.4.01) in grade four. For each assessment objective, the teams:

- Identified the critical function, or the main idea, of the objective;
- Wrote an instructional activity that could be used to teach the skills needed to meet the assessment objective in the general education classroom;
- Wrote a modified instructional activity that could be used to teach students with the most significant cognitive disabilities the same skills; and
- Identified two to three assessment activities that could be used to assess students with the most significant cognitive disabilities on the skills described in the modified activity.

After the development teams examined the assessment objectives and wrote both instructional and assessment activities for each grade level, the teams prioritized the assessment objectives, and selected the assessment objectives which are most suitable for students with the most significant cognitive disabilities. The leadership team at ISBE reviewed these priorities for further refinement. These pilot priorities will form the basis for the new IAA performance test items. Following the completion of the spring 2007 science pilot, a review may be necessary in order to determine if the new IAA mathematics priorities are appropriate and provide a comparable assessment to the regular statewide assessment.

Using grade-level curriculum as the focus, the development teams described the instructional and assessment supports, accommodations, and assistive technology required to ensure access to quality instruction. The descriptions produced by the development teams were summarized into a set of statements designed to provide consistency across the content frameworks. These statements are as follows:

- Appropriate instruction must occur prior to the assessment activity.
- All activities must provide appropriate support, accommodations, and/or assistive technology during both the instructional activities and the assessment process. This may include the following:
 - o The use of prompting strategies, ranging from minimum prompts to full physical assistance in order to create a learning continuum for correct responses.
 - o The use of assistive technology, ranging from low tech to high tech.
 - o The reduction of breadth, depth, and/or complexity.
- Specific instructional strategies and the instructional environment for the individual student vary and should be determined by the student's IEP team.
- During assessment activities, the students should use the mode of communication that they used to learn and practice the skills during instructional activities.

- Instruction should be presented to the student in a way that is authentic, accessible, and meaningful (e.g., tactile objects, picture symbols, or use of a text reader), to ensure the student has multiple opportunities to learn and demonstrate knowledge.
- Instruction should take place within the context of grade-level content, using age-appropriate activities and materials, regardless of the placement of the student.
- Instruction must incorporate age appropriate activities and materials which represent the same grade level content as their peers without disabilities. However, the activities and materials may be adapted to meet the individual needs of the student (e.g., reduce the language requirements or difficulty of the task) as long as the context of the materials used by same age peers remains intact.

All instructional practices should occur using available resources and materials familiar to the learners.

Communication skills are essential to the assessment of students with significant cognitive disabilities. Symbolic communication skills form the foundation for reading, mathematics, and writing. Students with significant cognitive disabilities are very diverse in their communication ability. Some students communicate symbolically, while others communicate in highly individualized ways. There are some important considerations in the development of symbolic communication skills which include the following:

- All students communicate regardless of their level of symbolic language use.
- Students with the most significant cognitive disabilities can acquire generalized use of objects (or object selection) to communicate preferences (Hetzroni, Rubin, Konkol, 2002).
- Language learners must use symbols repeatedly, interactively, and generatively during meaningful and ongoing activities in language-rich environments (Goossens, Crain, & Elder, 1992; Cafiero, 1998; Goossens, et al., 1992; Romiski & Sevcik, 1996; Miller & Eller-Miller, 2002; Mirenda, 2003).
- Competent use of language for multiple purposes, audiences, and contexts facilitate the metalinguistic skills required for reading comprehension (Rankin, Harwood, & Mirenda, 1994).

The assessment activities in this document reflect three types of students who represent the continuum of communication skills within this student population.

- The first activity is designed for students who inconsistently respond to communication and inconsistently use words, objects, or gestures to communicate expressively.
- The second activity is for learners who are beginning to use understandable communication through gestures, pictures, objects/textures, points, etc., to clearly express a variety of intentions.
- The third activity is for students who are using verbal or written words, sign language, Braille, or any language-based augmentative system to request, initiate, and respond to questions, describe things or events, and express refusal.

Throughout the frameworks document, the suggested general education instructional and modified instructional activities are written in plural form, as instruction is typically provided to a whole class. However, the instruction for these activities may be provided in the context of whole class instruction, small group instruction, or individually based on student needs. Conversely, the assessment activities are written in the singular form, as the IAA is a standard assessment measuring individual performance.

The process of reviewing the frameworks and aligning the new IAA to the Illinois Learning Standards and regular assessment is an ongoing process. The activities in this document were created by Illinois teachers and are only suggested activities that may be used to teach the assessment objectives listed. The activities, materials, and techniques listed in the frameworks are just one possible way to teach these assessment objectives and should not to be considered the state-mandated strategy for teaching any given assessment objective. Teachers should feel comfortable in using other strategies, materials, or activities that may already be in place or familiar to the teacher. The IAA Frameworks and the IAA itself will continue to be reviewed and adjusted as changes occur with the Illinois Standards and/or the regular assessment.

Grade 4 Priorities

State Goal 11

Scientific Inquiry (Standard A)

11.4.01 Understand how to design and perform simple experiments.

Technological Design (Standard B)

11.4.05 Identify a design problem and identify possible solutions. Assess designs or plans to build a prototype.

State Goal 12

Living Things (Standard A)

Reproduction

12.4.03 Identify the life cycle of familiar animals and compare their various stages: birth, growth and development, reproduction, and death. Understand that metamorphosis occurs in some animals (e.g., butterflies, frogs).

Environment and the Interaction of Living Things (Standard B)

12.4.07 Understand the concept of food chains and food webs and the related classifications of plants or animals (e.g., producers, decomposers, consumers, herbivores, carnivores).

Matter and Energy (Standard C)

Properties of Matter

12.4.14 Understand that matter is usually found in three states: liquid, solid, and gas; and be able to identify the properties of each. Understand that water can be found in all three forms.

Energy/Electricity

12.4.17 Understand that a magnet attracts iron, but not plastic, paper, and other nonmetals; nor does it attract all metals (since it does not attract copper or aluminum). Identify conductors and insulators.

Force and Motion (Standard D)

12.4.27 Identify simple machines (lever, inclined plane, pulley, screw, and wheel and axle) and understand how they function. Understand and know how they apply forces with advantage, and identify which machine is suited for accomplishing a simple task.

Earth Science (Standard E)

The Earth's Dynamic Processes

12.4.32 Understand that the surface of the earth changes. Know that some changes are due to slow processes (e.g., erosion, weathering), whereas others are due to sudden events (e.g., landslides, volcanic eruptions, earthquakes, asteroid impacts).

The Atmosphere

12.4.40 Understand that weather changes from day to day and over the seasons. Identify the order of the seasons and the different characteristics of each season.

Astronomy (Standard F)

12.4.47 Identify the order of planets from the sun, and know that the further planets take longer to go around the sun. Understand that all planets in our solar system revolve around the sun. Because Earth revolves around the sun, objects (e.g., stars, planets, constellations) in the sky appear to change positions throughout the year. Know that it takes Earth, 365 1/4 days to revolve around the sun.

State Goal 13

Safety and Practices of Science (Standard A)

13.4.01 Identify the basic safety equipment used in science (e.g., gloves, goggles, lab coats, tongs).

Science, Technology, Society (Standard B)

- 13.4.11 Identify ways that science and technology affect people's lives (e.g., in transportation, medicine, agriculture, communication) and careers.
- 13.4.13 Identify ways to reduce, reuse, and recycle materials.

Scientific Inquiry (Standard A)

11.4.01 Understand how to design and perform simple experiments.

Level	Critical Function	Suggested General	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment
		Education Activity	Instructional Activity	Activity 1	Activity 2	Activity 3
Grade 4	Create a simple	The teacher will provide	The teacher will	Given miniature objects or	Given a number of different	Given the directions for a
	experiment.	direct instruction on	provide direct	pictures of a cup, soil, seeds,	materials that include a cup, soil,	plant experiment, the
		designing experiments.	instruction on	water and light, the student	seeds, water and light as well as	student will be directed to
		The students will select	designing experiments.	will match the actual	other materials (e.g., sock, pencil,	change one of the variables
		three different soils (sand,	The students will	materials to the objects	hat), the student will differentiate	(e.g., amount of water,
		gravel, potting soil) and	select 2 different soils	needed for the plant	the materials needed versus those	amount or type of soil) and
		plant a bean seed in each	and plant a bean seed.	experiment.	not needed for the plant	conduct the experiment.
		container.			experiment.	

Technological Design (Standard B)

11.4.05 Identify a design problem and identify possible solutions. Assess designs or plans to build a prototype.

11.4.05 Iuc	11.4.05 Identity a design problem and identity possible solutions. Assess designs of plans to build a prototype.							
Level	Critical Function	Suggested General	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment		
		Education Activity	Instructional Activity	Activity 1	Activity 2	Activity 3		
Grade 4	Develop and analyze prototypes.	The teacher will provide direct instruction on how to identify a design problem and identify possible solutions. The students will then develop a paper airplane model and produce the airplane model from three different materials (e.g., tissue paper, foil, construction paper).	The teacher will provide direct instruction on how to identify a design problem and identify possible solutions. The students will then select a paper plane design, build it in groups, and test it.	Given three differently designed planes, the student will determine which plane will glide. (e.g., a plane with only one wing, a plane with no tail, or a plane that is correctly designed).	Given three planes; one constructed of tissue paper, one of foil and one of construction paper, the student will select which plane will glide.	Given foil, tissue paper and construction paper, the student will construct a plane from each type of paper, fly each plane and determine which will glide the furthest.		

Living Things (Standard A) Reproduction

12.4.03 Identify the life cycle of familiar animals and compare their various stages: birth, growth and development, reproduction, and death. Understand that metamorphosis occurs in some animals (e.g., butterflies, frogs).

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Level	Critical Function	Suggested General	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment			
		Education Activity	Instructional Activity	Activity 1	Activity 2	Activity 3			
Grade 4	Compare animal life cycles.	The teacher will provide direct instruction on the life cycle of familiar animals. The students will observe the stages of	The teacher will provide direct instruction on the life cycle of familiar animals. The students	Given two pictures of the life cycle of familiar animals, the student will sequence the pictures in the correct order.	Given more than two pictures of the life cycle of familiar animals, the student will sequence the pictures in the correct order.	Given information about the life cycles of two animals, the student will use this information to answer questions comparing the two;			
		development of meal worms or butterflies in a controlled environment.	will observe the stages of development of meal worms or butterflies in a controlled environment. The students will then sequence the order of the life cycle of an animal (minimum 2 stages).			such as, which has a longer life, etc.			

Environment and Interaction of Living Things (Standard B)

12.4.07 Understand the concept of food chains and food webs and the related classifications of plants or animals (e.g., producers, decomposers, consumers, herbivores, carnivores).

Level	Critical Function	Suggested General	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment
		Education Activity	Instructional Activity	Activity 1	Activity 2	Activity 3
Grade 4	Understand the	The teacher will review	The teacher will	Given a food chain (e.g., corn,	Given a number of objects or	Given a food chain with one
	concepts of food	the concept and features of	review the concept and	chicken, fox) and a non-food	pictures of objects that represent a	chain removed (e.g., plant,
	chains and food	a food chain. In class the	features of a food	chain (e.g., grass, flower, tree)	food chain, the student will	plant eater, meat eater) the
	webs.	students will start a food	chain. The students	the student will identify the	sequence them into a food chain.	student will predict the effects
		chain with the hawk as the	will select the order of	food chain.		on the food chain.
		consumer (i.e., bass,	a food chain (i.e.,			
		minnow, insect, plant).	minimum 3 parts).			

Matter and Energy (Standard C) Properties of Matter

12.4.14 Understand that matter is usually found in three states: liquid, solid, and gas and be able to identify the properties of each. Understand that water can be found in all three forms.

Level	Critical Function	Suggested General	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment
		Education Activity	Instructional Activity	Activity 1	Activity 2	Activity 3
Grade 4	Understand states	The teacher will provide	The teacher will	Given an example of matter in	Given examples of matter, the	Given water and a prompt, the
	of matter.	direct observation on the	provide direct	either the liquid or solid state,	student will label the matter by	student will describe how to
		states and properties of	observation on the	the student will match it to a	one of the three states of matter.	change the water to either a
		matter. The students will	states and properties of	different matter in the same		solid or a gas.
		then observe water's	matter. The students	liquid or solid state.		
		reaction to the addition	will then match			
		and removal of heat (i.e.,	water's changes to the			
		ice cube, melting,	three stages of matter			
		evaporation).	(i.e., ice cube, melting,			
			evaporation).			

Matter and Energy (Standard C) Energy/Electricity

12.4.17 Understand that a magnet attracts iron, but not plastic, paper, or other nonmetals; nor does it attract all metals (since it does not attract copper or aluminum). Identify conductors and insulators.

conductors	onductors and insulators.							
Level	Critical Function	Suggested General	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment		
		Education Activity	Instructional Activity	Activity 1	Activity 2	Activity 3		
Grade 4	Magnetic	The teacher will	The teacher will	Given the rules of attraction,	Given the rules of attraction, and	Given a minimum of three		
	attraction.	demonstrate the rules of	demonstrate the rules	and a choice of two objects,	several objects the student will	types of magnets, the student		
		attraction, conductors and	of attraction,	the student will select the one	sort magnetic objects from objects	will predict which magnet		
		insulators. The students	conductors and	that is has magnetic attraction.	with no magnetic attraction.	would have the most force.		
		will practice using a	insulators. The					
		magnet to investigate and	students will practice					
		list materials that were	using a magnet to					
		magnetic in the classroom.	investigate and list					
			materials that were					
			magnetic in the					
			classroom.					

Force and Motion (Standard D)

12.4.27 Identify simple machines (lever, inclined plane, pulley, screw, and wheel and axle) and understand how they function. Understand and know how they apply forces with

advantage, and identify which machine is suited for accomplishing a simple task.

Level	Critical Function	Suggested General	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment
		Education Activity	Instructional Activity	Activity 1	Activity 2	Activity 3
Grade 4	Identify the	The teacher will describe	The teacher will	Given a function of a simple	Given simple machine, the	Given several simple
	functions and use	simple machines, how they	describe simple	machine, the student will	student will identify its function.	machines and a specified task,
	of simple	function and identify	machines, how they	identify the simple machine to		the student will select the best
	machines.	which machine is suited	function and identify	perform the function from a		simple machine for the job.
		for accomplishing a simple	which machine is	choice of two.		
		task. To practice, the	suited for			
		students will select	accomplishing a			
		pictures of simple	simple task. To			
		machines such as: wheel	practice, the students			
		and axle, inclined plane,	will match pictures of			
		wedge or lever and explain	simple machines to			
		their functions and how	common objects			
		they make work easier.	(wheel and axle:			
			bicycle, inclined plane:			
			ramp, lever: hammer).			

Earth Science (Standard E)
The Earth's Dynamic Processes

12.4.32 Understand that the surface of the earth changes. Know that some changes are due to slow processes (e.g., erosion, weathering), whereas others are due to sudden events

(e.g., landslides, volcanic eruptions, earthquakes, asteroid impacts).

Level	Critical Function	Suggested General	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment
		Education Activity	Instructional Activity	Activity 1	Activity 2	Activity 3
Grade 4	Understand the	The teacher will describe	The teacher will	Given a process that changes	Given several processes that	Given the prompt of either a
	processes that	and provide historical	describe and provide	the earth's surface	change the earth's surface, the	sudden or slow process to
	change the Earth's	examples of quick and	historical examples of	(earthquake, erosion) the	student will sort them into quick	change the Earth's surface,
	surface.	slow processes that change	quick and slow	student will indicate whether	or slow change.	the student will list three
		the earth's surface. The	processes that change	it is a quick or slow change.		examples for each.
		students will be shown	the earth's surface.			
		pictures of volcanoes,	The students will be			
		earthquakes, and examples	shown pictures of			
		of weathering. The	volcanoes, earthquakes,			
		teacher will distinguish	and examples of			
		quick changes (volcanoes	weathering. The			
		and earthquakes) from	teacher will distinguish			
		slow changes (weathering,	quick changes			
		erosion, or the building of	(volcanoes and			
		mountains).	earthquakes) from			
			show changes			
			(weathering, erosion,			
			or the building of			
			mountains).			

Earth Science (Standard E) The Atmosphere

12.4.40 Understand that weather changes from day to day and over the seasons. Identify the order of the seasons and the different characteristics of each season.

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Level	Critical Function	Suggested General	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment
		Education Activity	Instructional Activity	Activity 1	Activity 2	Activity 3
Grade 4	Identify changes of	The teacher will describe	The teacher will	Given a prompt of a particular	Given weather conditions (e.g.	Given data collected for five
	weather and	that weather changes from	describe that weather	season, the student will select	temperature precipitation), the	days of weather the student
	season.	day to day and over the	changes from day to	the weather appropriate event.	student will predict the season.	will develop a weather
		seasons, identifying the	day and over the	(e.g. winter matches snow)		prediction.
		order of the seasons and	seasons, identifying			
		the different	the order of the			
		characteristics of each	seasons and the			
		season. The students will	different characteristics			
		chart the weather by	of each season. The			
		temperature, cloud	students will describe			
		conditions, precipitation,	weather conditions			
		wind and recognize the	expressively or			
		qualities of the four	receptively, charting			
		seasons.	weather conditions.			

Astronomy (Standard F)

12.4.47 Identify the order of planets from the sun, and know the further planets take longer to go around the sun. Understand that all planets in our solar system revolve around the sun. Because Earth revolves around the sun, objects (e.g., stars, planets, constellations) in the sky appear to change positions throughout the year. Know that it takes Earth, 365 1/4 days to revolve around the sun.

Level	Critical Function	Suggested General	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment
		Education Activity	Instructional Activity	Activity 1	Activity 2	Activity 3
Grade 4	Understand the	The teacher will describe	The teacher will	Given representations of the	Given a model of the solar	Given a prompt, the student
	order and	the order of the planets	describe the order of	sun, earth and moon, the	system, the student will answer	will answer questions about
	movement of the	from the sun, and that the	the planets from the	student will correctly identify	questions about location and	location and relationship to
	planets in our solar	further planets take longer	sun, and that the	each.	relationship to other planets. The	other planets in the solar
	system.	to go around the sun, that	further planets take		student will be able to identify 2	system. The student will be
		all planets in our solar	longer to go around the		to 3 other planets besides Earth.	able to match the planets and
		system revolve around the	sun, that all planets in			their names or put the planets
		sun, that Earth revolves	our solar system			in order.
		around the sun and that it	revolve around the sun,			
		takes Earth, 365 1/4 days	that Earth revolves			
		to revolve around the sun.	around the sun and that			
		To learn this, the students	it takes Earth, 365 1/4			
		will create a distance	days to revolve around			
		model using toilet paper or	the sun. To practice			
		string to scale the distance	this, the students will			
		from the sun to Pluto.	use photos and a model			
			to understand that there			
			is order in the planets			
			(i.e., first, next, last).			
			They will compare and			
			contrast physical			
			characteristics and			
			appearance.			

Safety and Practices of Science (Standard A)

13.4.01 Identify the ba	13.4.01 Identify the basic safety equipment used in science (e.g., gloves, goggles, lab coats, tongs).								
Critical Function	Suggested General Education Activity	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment				
		Instructional Activity	Activity 1	Activity 2	Activity 3				
Identify basic safety equipment in science.	The teacher will present an illustration of a scientist working in a lab and identify the safety equipment. The students will identify basic science safety equipment using an illustration of a scientist working in a lab (i.e., goggles, lab coat, gloves).	The teacher will present an illustration of a scientist working in a lab and identify the safety equipment. The students will match safety objects to their use (i.e., gloves protect; goggles protect).	Given a prompt, the student will match safety equipment to a body part.	Give an example of a situation, the student will choose which safety equipment to use. (e.g. a picture of someone heating objects with tongs and gloves)	Given a prompt, the student will develop a science experiment and formulate a minimum of three safety requirements for the operation.				
				Identify hazard and equipment, describe consequences.					

Science, Technology, Society (Standard B)

13.4.11 Identify ways that science and technology affect people's lives (e.g., in transportation, medicine, agriculture, and communication) and careers.

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Level	Critical Function	Suggested General	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment
		Education Activity	Instructional Activity	Activity 1	Activity 2	Activity 3
Grade 4	Identify ways that science and technology affect people's lives.	Education Activity The teacher will describe ways that science and technology have affected people's lives. The students will list a timeline of communication (i.e., pony express to telegraph) and describe how the progress affects lives.	The teacher will describe ways that science and technology have affected people's lives. The students will construct a picture of before and after using pictures of progressive technologies or inventions (e.g., before—rotary phone, and after—cell phone; before—early automobiles, after modern cars, before—early air flight, after—	Activity 1 Given a current technology, the student will match its "older" technology from a choice of two.	Activity 2 Given a current technology, the student will identify the "older" technology.	Activity 3 Given a current technology, the student will identify the "older" technology and one way the new technology has affected people's lives.
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Science, Technology, Society (Standard B)

13.4.13 Identify ways to reduce, reuse, and recycle materials.

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Level	Critical Function	Suggested General	Suggested Modified	Possible Assessment	Possible Assessment	Possible Assessment
		Education Activity	Instructional Activity	Activity 1	Activity 2	Activity 3
Grade 4	Identify ways to	The teacher will describe	The teacher will	Given several pictures of	Given several pictures of	Given a prompt, the student
	reduce, reuse, and	and demonstrate ways to	describe and	materials, the student will	materials, the student will sort	will make a list of items that
	recycle.	reduce, reuse, and recycle	demonstrate ways to	identify a material as either	them into recyclable or reusable.	can be recycled or a list of
		materials. The students	reduce, reuse, and	recyclable or non-recyclable.		items that can be reused
		will then generate a list of	recycle materials. The			(instead of thrown away).
		potentially recyclable	students will then sort			
		materials and choose an	objects by recyclable,			
		item or object to	reducible, and/or			
		investigate how it can be	reusable. They will			
		recycled (i.e., batteries,	then describe ways to			
		glass, aluminum cans,	reduce, reuse or			
		paper). Share results.	recycle.			