

Kindergarten Entry Assessments

An Examination of Best Practices, National Trends, and Recommendations

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Kindergarten entry assessments (KEAs) are evaluations administered to students before or during the initial weeks of kindergarten. Their primary role is to guide instructional practices and assess development, aiming to support children's learning across different domains, including language, early literacy, and social-emotional skills (Harding et al., 2020). This brief outlines the characteristics of high-quality KEAs, the various ways these assessments may be used, the different types of KEAs and related national trends, and ends with recommendations for policymakers and practitioners.

Key Points

- KEAs are evaluations administered to students at the start of kindergarten to assess their development and guide instructional practices.
- High-quality KEAs span five developmental domains, contain clear and culturally and linguistically responsive administration guidelines, align with curriculum standards and other early childhood assessments, and are supported by additional resources like professional development.

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- KEA data may be utilized with various interest holders in diverse ways, including informing tailored instruction, shaping schoolwide programming, guiding resource allocation, and evaluating progress towards state goals.
- Effectively choosing and implementing KEAs requires considering cultural and linguistic diversity, reliability and validity, resource allocation, training, alignment, collaboration, and parental involvement.
- Only 15 states and the District of Columbia mandate kindergarten attendance.
- As of May 2024, 34 states require some type of statewide or district-level KEA be administered to all incoming students.

Characteristics of High-Quality KEAs

A high-quality KEA is characterized by appropriate content, clear administration guidelines, and alignment with curriculum standards and other early childhood assessments. The content ideally encompasses five child development domains: physical well-being, social-emotional, learning approaches, language and literacy, and cognitive development (K–3 Formative Assessment Consortium; Weisenfeld et al., 2020; Yun et al., 2021) and is designed to gather comprehensive student data. KEAs should cater to diverse learning styles, be culturally responsive and linguistically appropriate, provide reliable data collection, and be administered to all students (K–3 Formative Assessment Consortium; Yun et al., 2021; Minnesota Department of Education et al., 2020; Nevada Early Childhood Advisory Council, 2012).

Alignment to standards and other early childhood assessments is crucial to ensure the effectiveness of KEAs. Integration with student formative assessment over time enhances the impact of KEAs on students' educational journeys. This alignment also promotes consistent instruction and a shared understanding of developmental milestones (Weisenfeld et al., 2020). Furthermore, alignment with other assessments in elementary can foster cohesion, potentially close achievement gaps, and improve child outcomes (Kauerz & Coffman, 2019).

Ongoing educator support plays a pivotal role in maximizing the effectiveness of KEAs. Professional development opportunities for teachers, timely documentation tools, and user-friendly data management systems enable educators to utilize KEA data effectively (Shields et al., 2016; Yun et al., 2021). This comprehensive support ensures that KEAs are integrated seamlessly into the teaching and learning process.

Appropriate Uses of KEAs

KEAs can be used for many purposes: to tailor instruction, pinpoint strengths and needs of individual children and groups, identify students in need of additional assessments, foster stronger teacher-parent partnerships, and monitor student progress (Garver, 2020; Yun et al., 2021). Additionally, KEAs may be used to identify and plan needed



supports, guide early learning programs, inform professional development, and improve collaboration and alignment across grades (Garver, 2020; Yun et al., 2021). Trends and data from KEAs may help to inform decisions regarding state programs, policies, and resource allocations (Regional Educational Laboratory Program, n.d.). While KEAs may serve diverse purposes, it is important to note that KEAs cannot do all of these things simultaneously. See Table 1 in the appendix for a more detailed description of the potential uses of KEAs at the classroom, building or site, district, and state levels.

KEA data should *not* be used as part of an accountability system for students, teachers, or early learning providers. Additionally, they should not be utilized to delay the start of kindergarten for a student nor to diagnose a child with a learning disability (Yun et al., 2021). The effectiveness of using a KEA to evaluate programs relies on the presence of a dedicated study designed for that purpose.

Types of KEAs

There are two main types of KEAs: state assessments and national standardized assessments. This brief refers to state assessments as tests designed by or for a specific state(s), while national, standardized assessments are tests created with a broader applicability for any state to use. Both state and national KEAs have the potential to inform instructional decisions, support family engagement, and guide policy-level efforts to enhance early learning systems. One type is not necessarily more beneficial than the other. The benefit of these assessments is contingent on factors such as assessment quality, alignment with standards, and effective implementation strategies. The decision to use either a state or more broadly applicable national KEA depends upon the state's intended objectives for utilizing the assessment. This includes choosing from a variety of assessment types, such as observation-based, direct, criterion-referenced, or norm-referenced. The choice of assessment should respond to a state's specific context, the composition of that state's population, and the desired mechanisms for implementation.

State KEAs

State KEAs are generally tailored to each state's specific early learning standards and educational priorities (Yun, 2021). These assessments aim to evaluate a wide range of domains, including language, literacy, math, science, executive function, and socialemotional skills, to give teachers a comprehensive understanding of each child's readiness for the kindergarten curriculum. The content and structure of state KEAs vary, as states have the flexibility to design assessments that align with their educational objectives and the needs of their student population (Yun, 2021).

National Standardized KEAs

General KEAs seek to provide a consistent, standardized measure of child development across multiple states. These assessments cover essential domains such as social-



emotional, cognitive, language and literacy, mathematical and scientific reasoning, and physical development, intending to offer a holistic view of each child's skills and abilities. The content and administration of general assessments are typically more uniform, allowing for cross-state comparisons and the identification of national trends in kindergarten readiness (Yun, 2021).

National Trends

While current research highlights the advantages of using KEAs effectively and appropriately, most states are still in the nascent stages of exploring, developing, and implementing these assessments. This slow adoption is underscored by the fact that only 15 states and the District of Columbia mandate kindergarten attendance for all children within their jurisdictions. Of those 15 states, 11 still require that students take a KEA: Arkansas, Delaware, Hawaii, Louisiana, Maryland, Massachusetts, Nevada, New Mexico, Ohio, South Carolina, and Virginia. For more information on each state's kindergarten attendance and entry assessment requirements, see Table 2 in the appendix.

Our research accounts for 37 states that mandate a statewide or district-level KEA for incoming students. Of those 37 states, 22 use state-specific KEAs, while 13 utilize national assessments. Texas is the only state that offers both state and national assessment options. Hawaii is the only state that does not detail its KEA options, although it requires students to take a KEA. The most common commercially created assessments include Teaching Strategies Gold (offered by five states), the Desired Results Development Profile (offered by four states), and the Brigance assessments (offered by four states). See Table 2 in the appendix for more details surrounding KEA requirements and types of assessment offered.

Recommendations for KEA Considerations

The following summary recommendations are provided for policymakers and practitioners to consider in the selection and execution of a high-quality KEA: cultural and linguistic responsiveness, standardization and reliability, resource allocation and training, alignment to other educational levers, and collaboration and parental involvement.

Cultural and Linguistic Diversity

KEAs should be culturally responsive and linguistically appropriate, ensuring equitable assessments for all children regardless of their background (Yun et al., 2021). Assessments should accommodate English learners and children with special needs, with policies in place regarding assessors' linguistic capacities (Ackerman, 2018a, 2018b). Proficiency in native languages should be considered alongside English (National Research Council, 2008). Additionally, the diverse backgrounds of all students, including Hispanic/Latino students, Indigenous students, and students who



speak various dialects, should be considered. Students' families' countries of origin, dialects, language use at home, and length of time in the United States should also be considered. Additionally, to ensure success, the KEA should avoid being highly scripted, inauthentic, or excessively lengthy. KEAs should encompass a comprehensive range of developmental domains and avoid bias in assessment design or implementation (Weisenfeld et al., 2020).

Standardization and Reliability of Assessment

High-quality KEAs adhere to appropriate practices, being reliable, valid, fair, and aligned with state learning standards (National Research Council, 2008; Yun et al., 2021). They should offer clear administration guidelines, reliable data collection, and revisions based on teacher feedback (Ackerman, 2018b). Addressing construct-irrelevant issues, such as linguistic and cultural biases in assessment design or implementation, is vital, particularly for multilingual learners (Ackerman, 2018a).

Resource Allocation and Training

Allocating additional resources for support is essential for accurate and reliable KEA administration. This includes providing professional development opportunities for teachers in addition to offering user-friendly data management systems. The assessment process should also avoid being overly scripted or lengthy for educators and students (Ackerman, 2018b). Teachers may require additional training or technical assistance to effectively assess multilingual learners (Ackerman, 2018a). With the judicious allocation of time and resources, the KEA can bridge assessments from early childhood education and later K–3 or other elementary assessments.

Alignment

Beyond being a standalone assessment, the KEA should align with formative assessment practices, professional learning, and systemic support. A balanced focus on various language and literacy skills is essential to accurately gauge children's language and literacy development in kindergarten and beyond. To realize meaningful change, a KEA must be integrated into a holistic educational framework.

As stated previously, a KEA must be aligned to a state's desired purpose. While the assessment can achieve many different outcomes, it cannot meet all of its possible uses at the same time. Instead, a KEA must serve a state's specific purpose for a specific population in its diversity and complexity.

Collaboration and Parental Involvement

Collaboration plays a crucial role in the effective implementation and enhancement of KEAs. Interest holders, including educators, school and district leaders, state policymakers, researchers, and families, must work together to refine assessment tools, promote datadriven decision-making, and support student learning (Hanover Research, 2013).



Collaborative efforts enhance the alignment of KEAs with state standards and early childhood and elementary assessments, fostering cohesion and improving child outcomes.

Furthermore, involving parents in the assessment process fosters stronger teacherparent partnerships, necessitating consistent practices for communication and obtaining informed consent (National Research Council, 2008). Timely, tailored reports and targeted professional development help educators use and share the KEA data with families (Golan et al., 2016). This shared data creates transparent communication pathways between educators and parents, strengthening family and school partnerships.

Conclusion

Implementing a high-quality KEA requires careful consideration of content, alignment of standards and other assessments, and resource provision. By adopting best practices and drawing from successful examples in other states, policymakers can establish a robust KEA system that supports students' holistic development and lays a strong foundation for their educational journey. Through continuous improvement and a commitment to excellence, policymakers and practitioners can ensure that their KEA fulfills its role as an effective tool for enhancing instructional practices that foster positive learning outcomes.



References

- Ackerman, D. J. (2018a). Comparing the potential utility of kindergarten entry assessments to provide evidence of English learners' knowledge and skills. ETS Research Report Series, 2018(1), 1–26. <u>https://doi.org/10.1002/ets2.12224</u>
- Ackerman, D. J. (2018b). Real world compromises: policy and practice impacts of kindergarten entry assessment-related validity and reliability challenges. ETS Research Report Series, 2018(1), 1–35. <u>https://doi.org/10.1002/ets2.12201</u>
- Garver, K. (2020). *The "why" behind kindergarten entry assessments. In national institute for early education research.* National Institute for Early Education Research. <u>https://nieer.org/wp-content/uploads/2020/08/KEA-Policy-Brief.pdf</u>
- Golan, S., Woodbridge, M., & Davies-Mercier, B. (2016). *Case studies of the early implementation of kindergarten entry assessments final report*. U.S. Department of Education. <u>https://files.eric.ed.gov/fulltext/ED613415.pdf</u>
- Harding, J., Herrmann, M., Hanno, E., & Ross, C. (2019). Using kindergarten entry assessments to measure whether Philadelphia's students are on-track for reading proficiently. <u>https://files.eric.ed.gov/fulltext/ED599402.pdf</u>
- Hanover Research. (2013, December 13). *Kindergarten entry assessments: practices and policies*. <u>https://www.hanoverresearch.com/media/Kindergarten-Entry-Assessments-Practices-and-Policies.pdf</u>
- Kauerz, K. & Coffman, J. (2019). Framework for planning, implementing, and evaluating p-3 approaches (2nd ed.). Denver, Colorado: National P-3 Center, School of Education and Human Development, University of Colorado Denver. <u>https://nationalp-3center.org/wp-content/uploads/2019/10/P-3-Framework.pdf</u>
- K–3 Formative Assessment Consortium. (n.d.). *Overview of a groundbreaking new early learning project*. <u>https://files.nc.gov/ncelc/northcarolinak3overview.pdf</u>
- Minnesota Department of Education, Brown, M. B., Dole, K. D., Reineke, J. R., Solie, K. S., Tamminga, C. T., & Vaupel, J. V. (n.d.). *Early learning services (ELS) open office hours: Building your capacity for ongoing transition* [Slide show]. ELS Open Office Hours, United States of America. Minnesota.gov. <u>https://education.mn.gov/mdeprod/idcplg?ldcService=GET_FILE&dDocName=P_ROD058532&RevisionSelectionMethod=latestReleased&Rendition=primary</u>
- National Research Council. (2008). *Early childhood assessment: why, what, and how.* National Academies Press. <u>https://doi.org/10.17226/12446</u>
- Nevada Early Childhood Advisory Council (2012). *Needs assessment for Nevada's kindergarten entry assessment project*. <u>https://nvecac.com/wp-</u> <u>content/uploads/2014/10/Kindergarten-Entry-Assessment.pdf</u>



Regional Educational Laboratory Program (REL). (n.d.). REL Resource | Kindergarten entry assessments: What you need to know. https://ies.ed.gov/ncee/rel/Products/Region/midwest/Resource/10390

- Shields, K. A., Cook, K. D., Greller, S., Regional Educational Laboratory Northeast & Islands administered by Education Development Center, Inc., & Institute of Education Sciences. (2016). *How kindergarten entry assessments are used in public schools and how they correlate with spring assessments*. REL 2017-182.
 U.S. Department of Education. <u>http://files.eric.ed.gov/fulltext/ED569203.pdf</u>
- Weisenfeld, G. W., Hodges, K. H., & Garver, K. G. (2020). *Kindergarten entry* assessments (KEAs) within a K–2 assessment system. National Institute for Early Education Research. <u>https://nieer.org/wp-content/uploads/2020/06/KEA-Brief-K2-System-6.4.20-FINAL.pdf</u>
- Yun, C., Melnick, H., & Wechsler, M. (2021). *High-quality early childhood assessment: Learning from states' use of kindergarten entry assessments*. Learning Policy Institute. <u>https://learningpolicyinstitute.org/product/high-quality-kindergarten-</u> <u>entry-assessments-report</u>



Appendix

Table 1. Potential Uses of KEAs at Different Stakeholder Levels [adapted from (Garver, 2020; Yun et al., 2021)]

Stakeholder Level	Use of KEA Data		
Classroom	Inform and adapt instructional practices to tailor individualized instruction.		
	• Identify students requiring targeted services and create a school readiness plan for each child.		
	• Engage with families through information sharing and involvement in instruction and resources.		
Building or Site	Shape schoolwide programming and support for students and families.		
	• Systematically track students using a data management system, highlighting their performance history (e.g., aligned assessments early childhood education through third grade).		
	Inform strategic placement of students in kindergarten classes.		
	 Identify students in emergent and developing areas for targeted support. Facilitate communication of student needs among teaching staff, including specialists. 		
District	 Measure curriculum effectiveness and track long-term trends in student performance to measure the impact of various initiatives and interventions on cohort-level outcomes*. 		
	Inform equitable resource allocation and investments in early childhood programs.		
	Plan and design professional development and training sessions.		
	• Inform district-wide strategic planning by identifying trends, gaps, areas of success, and the extent of potential learning losses.		
State	Support federal reporting and state-level reporting required by federal agencies.		
	 Evaluate progress towards state goals, pinpoint opportunity gaps, and continuously monitor the state's long-term trends and advancements in early literacy to use as an indicator of state preschool program impacts*. 		
	• Allocate funding and resources for specific programs (such as pre-K) more effectively by directing support to schools, districts, or regions.		
	 Identify schools or districts that require targeted interventions and support, such as professional development or specialized programs, to address literacy gaps. 		

*Requires a dedicated study with the purpose of evaluation



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Table 2. A National Scan of Kindergarten Requirements and Kindergarten Entry Assessments ¹

State	Kindergarten Requirements	KEA Requirements
Alabama	No	Yes, all students entering kindergarten are required to be assessed. Assessment (State): The Alabama
		Kindergarten Inventory Developing Skills (ALAKiDs)
Alaska	No	Yes, all students entering kindergarten or first grade are required to be assessed. Assessment (State): Alaska Developmental Profile (ADP)
Arizona	No	Yes, all students entering kindergarten are required to be assessed. Assessment (National): Teaching
Arkansas	Yes	Strategies GOLD Yes, all students entering kindergarten are required to be assessed. Assessment (National): There are four state-approved options districts may choose from: Curriculum Associates: i-Ready, Istation: ISIP, NWEA: Map Growth, and Renaissance: Star
California	No	No

¹ The research team used the following definition to identify states that require or do not require Kindergarten attendance: Kindergarten is required for students who are five years old at the start of the school year or when the compulsory attendance age is five. This definition includes students who turn 6 during the school year or before the start of the following school year. When a state's compulsory age was 6, this was considered "not required."



State	Kindergarten Requirements	KEA Requirements
Colorado	No	Yes, all students entering kindergarten are required to be assessed. Assessment (National): There are 10 state-approved options districts may choose from: Acadience Math K- 6, Brigance Early Childhood Screens III, COR for Kindergarten, Desired Results Developmental Profile- Kindergarten (DRDP-K), Developmental Indicators for the Assessment of Learning (DIAL-4), FastBridge earlyMath, FastBridge earl Reading, FastBridge SAEBRS, Teaching Strategies GOLD®, Istation's Indicator of Progress (ISIP), North Carolina KEA
Connecticut	No	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Kindergarten Entrance Inventory (KEI)
Delaware	Yes	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Delaware Early Learner Survey (DE-ELS).
Florida	No	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Florida Assessment of Student Thinking (FAST) Star Early Literacy test
Georgia	No	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Georgia Kindergarten Inventory of Developing Skills (GKIDS) Readiness Check



State	Kindergarten Requirements	KEA Requirements
Hawaii	Yes	Yes, all students entering kindergarten are required to be assessed. Assessment: None stated
Idaho	No	Not specified in statute or regulation
Illinois	No	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Kindergarten Individual Development Survey (KIDS)
Indiana	No	No
lowa	No	Yes, all students entering kindergarten are required to be assessed. Assessment (National): Districts may select a valid and reliable universal screening instrument as prescribed by the Department of Education.
Kansas	No	Yes, all students entering kindergarten are required to be assessed. Assessment (National): Ages & Stages Questionnaires®, Third Edition (ASQ-3) and Ages & Stages Questionnaires®: Social-Emotional, Second Edition (ASQ: SE-2).
Kentucky	No	Yes, all students entering kindergarten are required to be assessed. Assessment (National): Curriculum Associates BRIGANCE® Kindergarten Screen (K Screen)



State	Kindergarten Requirements	KEA Requirements
Louisiana	Yes	Yes, all students entering kindergarten are required to be assessed. Assessment (National): There are eight state-approved options districts may choose from: Developing Skills Checklist (DSC), Teaching Strategies GOLD, Desired Results Developmental Profile Assessments (DRDP)-K, Developmental Indicator for the Assessment of Learning-Third Edition (DIAL-3), Developing Skills Checklist (DSC), Brigance K & 1 Screen, Early Screening Inventory- Revised, Screening Test for Education Prerequisite Skills (STEPS)
Maine	No	No
Maryland	Yes	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Maryland Kindergarten Readiness Assessment (KRA)
 Massachusetts	Yes	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Massachusetts Kindergarten Entry Assessment (MKEA)2

² The Maryland State Department of Education (MSDE) will be moving away from the current Kindergarten Readiness Assessment (KRA) after a study indicated potential bias in the current assessment against multilingual learners.



State	Kindergarten Requirements	KEA Requirements
Michigan	No	Yes, districts will administer the Michigan kindergarten entry observation tool to the full census of kindergarten pupils enrolled in the classroom or to a representative sample of not less than 35% of the total kindergarten pupils enrolled in each classroom. Assessment (State): Michigan Kindergarten Entry Observation/ Kindergarten Readiness Assessment (MKEO/KRA)
Minnesota	No	Yes, all students entering kindergarten are required to be assessed. Assessment: There are four state- approved options districts may choose from: COR Advantage, Desired Results Developmental Profile (DRDP), Teaching Strategies GOLD, Work Sampling System (WSS)
Mississippi	No	Yes, all students entering kindergarten are required to be assessed. Assessment (National): Renaissance Star Early Literacy
Missouri	No	Yes, all students entering kindergarten are required to be assessed. Assessment (National): There are three state-approved options districts may choose from: The Kindergarten Observation Form, Desired Results Developmental Profile for Kindergarten (DRDP K-Essential), Brigance Inventory of Early Development III Standardized
Montana	No	No



State	Kindergarten Requirements	KEA Requirements
Nebraska	No	Yes, all students entering kindergarten are required to be assessed. Assessment (National): Districts may select a valid and reliable universal screening instrument as prescribed by the Department of Education.
Nevada	Yes	Yes, all students entering kindergarten are required to be assessed. Assessment (National): The Brigance Early Childhood Screen III: K & 1 published by Curriculum Associates; and The Measures of Academic Progress (MAP)3
New Hampshire	No	No
New Jersey	No	Yes, all students entering kindergarten are required to be assessed. Assessment (National): Teaching Strategies GOLD
New Mexico	Yes	Yes, all students entering kindergarten are required to be assessed. Assessment (State): New Mexico Kindergarten Observation Tool (KOT)
New York	No	No
North Carolina	No	Yes, all students entering kindergarten are required to be assessed. Assessment (State): The North Carolina Early Learning Inventory (NC ELI)

³ The Nevada Department of Education is in the process of acquiring a new Kindergarten Entry Assessment.



State	Kindergarten Requirements	KEA Requirements
North Dakota	No	Yes, all students entering kindergarten are required to be assessed. Assessment (State): North Carolina Kindergarten Entry Assessment
Ohio	Yes	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Ohio Kindergarten Readiness Assessment Revised (KRA-R)
Oklahoma	No	No
Oregon	No	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Oregon Kindergarten Assessment
Pennsylvania	No	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Pennsylvania Kindergarten Entry Inventory
Rhode Island	No	No
South Carolina	Yes	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Kindergarten Readiness Assessment (KRA)
South Dakota	Yes	No
Tennessee	Yes	No



State	Kindergarten Requirements	KEA Requirements
Texas	No	Yes, all students entering kindergarten are required to be assessed. Assessment (state/national): Texas Kindergarten Entry Assessment by the Children's Learning Institute and mCLASS Texas by Amplify1
Utah	No	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Utah's Kindergarten Entry and Exit Profile
Vermont	No	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Vermont Early Childhood Comprehensive Assessment System
Virginia	Yes	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Virginia Kindergarten Readiness Program (VKRP)
Washington	No	Yes, all students entering kindergarten are required to be assessed. Assessment (State): Washington Kindergarten Inventory of Developing Skills (WaKIDS)
Washington, D.C	Yes	No
West Virginia	Yes	Yes, all students entering kindergarten are required to be assessed. Assessment (State): West Virginia Early Learning Reporting System (WV ELRS)



State	Kindergarten Requirements	KEA Requirements
Wisconsin	Yes	No
Wyoming	Yes	No

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