CAESART

Help Improve Elementary Science Education!

The Center to Advance Elementary Science through Assessment, Research, and Technology (CAESART) at Education Development Center (EDC), a non-profit research organization, invites your district to participate in a federally funded research study to better understand the effect of a literacy-integrated science curriculum on children's science learning.

Who?

We are looking for schools and districts that meet one of the following criteria:

- Currently implementing a science curriculum in K and Grade 1 classrooms

  OR

- Willing to adopt Amplify Science, a literacy-integrated curriculum, in K and Grade 1 classrooms.

Why?

To understand the effect of literacy-integrated science curriculum on children's science learning, we will compare instruction and children's science learning outcomes in K-1 classrooms using Amplify to classrooms using other science curricula.

Benefits of Participating in the Study

Schools and teachers who join the study will receive:

- **$5,000** per school per year to support implementation
- **$1,000*** per participating teacher per year

*Teachers will be paid in accordance with school/district policies.

If you **do not** currently use a K–1 science curriculum—or **want to try Amplify Science K–1**—this study will give you free access to Amplify Science during the study, including:

- **Amplify Science K–1 curriculum + classroom materials**, free of charge for 2 years
- **1.5 days/year of professional learning** for participating teachers

About the Curriculum

Amplify Science merges core science concepts with literacy development to create an engaging, evidence-informed experience, through hands-on investigations for young learners. Grounded in the latest early learning research, Amplify Science is aligned with the **Next Generation Science Standards** (NGSS) and aims to build a strong foundation in both science and literacy during the critical early years.

About the Study

The two-year study explores the effect of literacy-integrated science curriculum on children's science learning over time. Researchers will collect data from kindergarten teachers and students in 2026/7 school year and first grade teachers and students in 2027/8.

Why this matters:

- **Build strong foundations**: Early science experiences foster curiosity, conceptual understanding, and positive attitudes – critical for later science achievement.[i]
- **Support literacy growth**: Research shows science instruction improves vocabulary, reading comprehension, and writing.[ii]
- **Align district priorities**: The study offers districts the opportunity to test out a standards-aligned science curriculum to assess its fit for your schools.

Who?	When?	Where?
K-1 teachers and their students in public elementary schools	Two school years: 2026/7 & 2027/8	In classrooms & virtually

What's Involved for Teachers?

Science Curriculum Activities	Research Activities
• Current Amplify users: Continue using Amplify Science • Other curriculum users: Continue using your regular science curriculum as normal • Amplify adopters: Receive 1.5 days of professional learning (one day in-person + ½ day virtual) and begin using Amplify Science	• Complete short surveys and participate in interviews • Help share study information to parents • Coordinate researcher administration of two student science assessments • Coordinate with researchers to schedule up to three classroom observations

Interested in learning more?
Email caesart@edc.org.

Scan or visit caesart.edc.org to learn more about our work.

[i] Morgan, P. L., Farkas, G., Hillemeier, M. M., & Maczuga, S. (2016). *Science achievement gaps begin very early, persist, and are largely explained by modifiable factors*. Educational Researcher, 45(1), 18–35

[ii] Cabell, S. Q., & Hwang, H. (2020). *Science content and literacy integration: An avenue for promoting language and reading comprehension in the primary grades*. Early Childhood Research Quarterly, 50, 158–170

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