



Hatching New Scientists Every Day!

Audience

- Children ages 3 to 5
- Parents and families
- Preschool educators: center based and family child care
- English and Spanish speakers

Goals

- 1) redesign the PEEP website to better engage English- and Spanish-speaking kids and families;
- 2) provide professional development for preschool educators; and
- 3) reach out to a new and underserved audience of family child care educators

Evaluation

- English- and Spanish-speaking parents who used PEEP were significantly more likely to find enjoyment exploring science with their children, improve their knowledge of how to help their children learn science, and believe that it is their role to help their children learn science and math (CEG, 2015).
- English- and Spanish- speaking children who used PEEP were more likely to improve their knowledge of math and science content, increase their interest in math and science, and show curiosity about math and science (CEG, 2015).

Additional Insights

Formative evaluation from the Donahue Institute at UMASS proved helpful in painting a general picture of family childcare providers as hardworking and time-constrained, eager to expand their practice, but with a need for flexibility. Donahue found that educators were pleased to be recognized as deserving of professional development; enjoyed learning about science teaching strategies; and reported that these strategies often validated what they were already doing.

What is PEEP?

- An animated preschool science and math series on public television.
- A fully bilingual website (in Spanish and English) containing 120 animated stories and live-action video segments; 21 online games; 120 offline “Anywhere Science and Math” activities for families; an extensive curriculum for preschool educators; and 14 Android and iOS mobile apps for kids.
- The first national media project to feature an exploration-based pre-K science and math curriculum.

Resources for Educators

The PEEP Curriculum provides preschool educators with six three-week curriculum units organized around the science topics of PLANTS, SOUND, COLOR, RAMPS, SHADOWS, and WATER. The curriculum contains 360 activities in English and Spanish, and is fully online, with embedded links to related *PEEP* games and videos. A subset of 100 “Stand-Alone Activities” are available for educators who wish to integrate *PEEP* activities into their current programming.

Professional development materials for preschool educators (family childcare and center-based) include 72 short videos modeling four key teaching strategies—Science Talk, Documentation and Reflection, Individualized Instruction, and Learning Environments—in a range of educational settings. Accompanying the videos are guides for facilitators who wish to provide face-to-face trainings and those who will use self-guided trainings.

Resources for Parents & Caregivers

“Anywhere Science and Math” activities, available online, give parents creative ideas on how to turn everyday situations—like taking a bath or going on a walk—into an exploration of science and math.

Videos for parents feature best parenting practices for promoting play and supporting STEM development.

Resources for Children

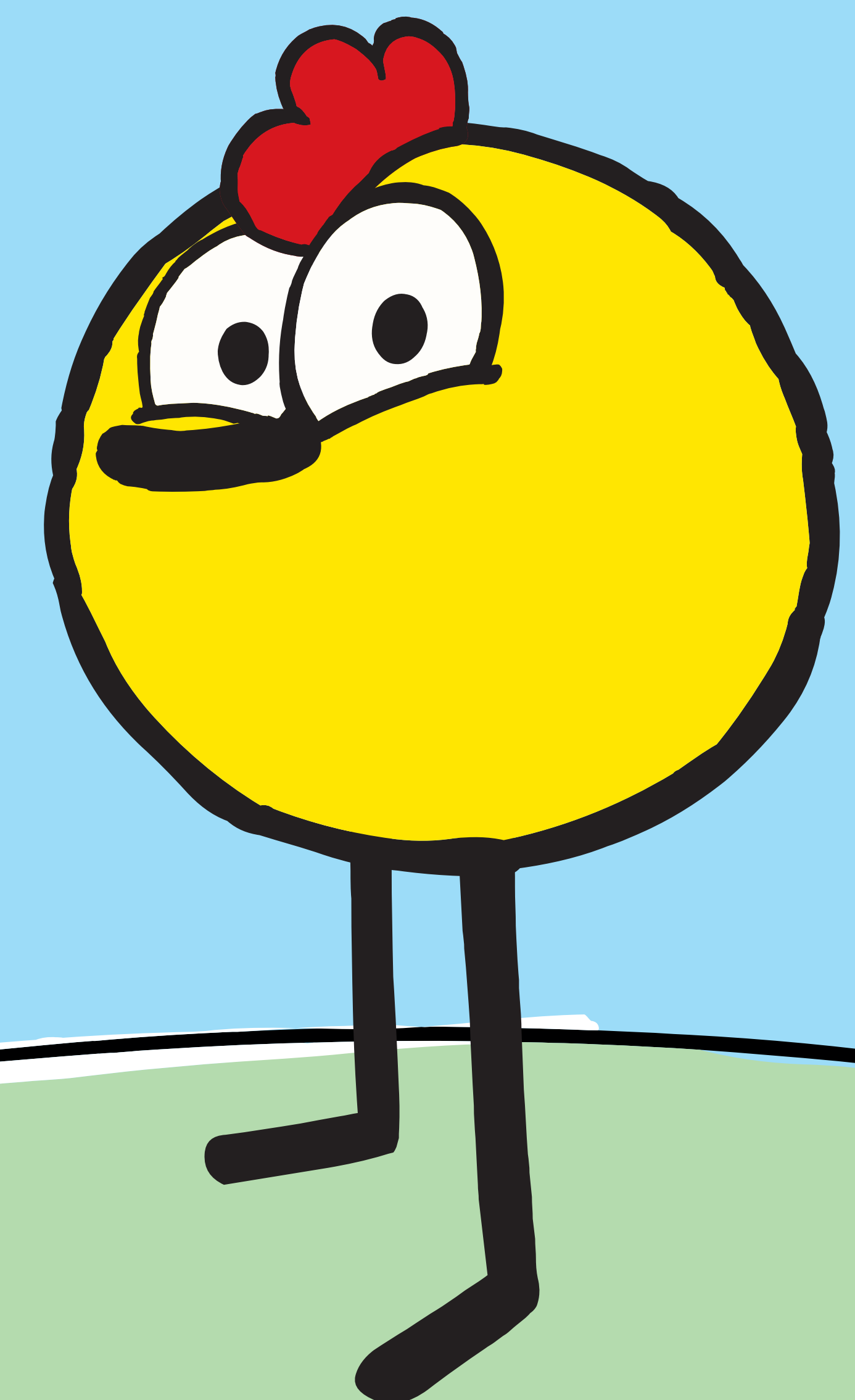
The *PEEP* website contains six different “pathways:” **collections of animated stories, live-action videos, and online games** organized around science and math content areas. These pathways are designed to encourage independent, in-depth exploration of science topics in both English and Spanish.

Educational Partners

- AVANCE
- National Association of Family Child Care
- National Association of Child Care Resource and Referral Agencies
- National Head Start Association
- National Education Association

Awards

- *Emmy*, Outstanding Children’s Animated Program
- *Emmy*, Outstanding Writing in Animation
- *Gemini* (Canadian “Emmy”)
- *Award of Excellence*, Alliance for Children and Television
- CINE Golden Eagle
- Parents’ Choice Gold Awards
- Kidscreen Award – Best preschool website



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www.peepandthebigwideworld.org

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