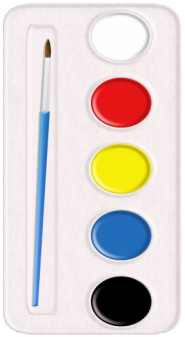


SCIENCE FOR TODDLERS



Children are born with an inquisitive mind and learn about their world through discovery. Science builds our knowledge and understanding of the world. These skills help children to generate ideas, make decisions, and use evidence to understand issues.



ICE PAINTING

Freeze water in a container. Remove onto a tray. Let your child use watercolor paint and paint on top of the ice.

Notice what happens with the watercolors as the ice melts. The texture starts changing, as do the colors. Press a piece of paper on top to make a print! **3.3 OT.A.3 Earth and Space Sciences—Matter and Energy**



MAKE PREDICTIONS

Drop balls off A play structure at the park.

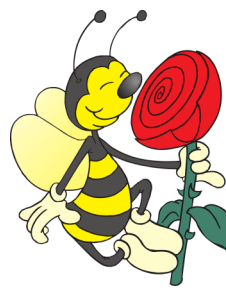
Count how many bounces you get out of each ball. Bonus: make predictions (guesses) BEFORE dropping the balls!

3.2 YT.B.1 Physical Sciences



SINK OR FLOAT

Have your toddler gather up some of their favorite toys to see if they float or sink. Ask questions such as, “Do you think that one will sink when you put it in?” or “What do you think will happen with that toy?” **3.1 YT.A.9 Biological Sciences—Science as Inquiry**



YOUR 4 SENSES

Explore the 5 senses with your toddler: taste, touch, sound, smell, and sight. Encourage feeling new textures, listening for birds, tasting a new fruit (and examine the seeds!), smelling the flowers, or watching the rainfall. **3.1 OT.A.1 Biological Sciences**

www.tfec.org
717.236.5040
info@tfec.org



PENNSYLVANIA LEARNING STANDARDS FOR EARLY CHILDHOOD: TODDLER

The Department of Education and the Office of Child Development and Early Learning use a Standards Aligned System. The Pennsylvania Learning Standards for Early Childhood are designed to support learning. The key areas explored in these activities are Biological Sciences, Physical Sciences, and Earth and Space Sciences .

3.1 BIOLOGICAL SCIENCES

Big Idea: Living things have unique characteristics which differ from nonliving things. The characteristics of living things can be observed and studied.

- 3.1 OT.A.1 Identify basic characteristics of some living and nonliving things.
- 3.1 YT.A.9 Participate in simple investigations to observe living and nonliving things.

3.2 PHYSICAL SCIENCES

Big Idea: Physical properties help us to understand the world.

3.2 YT.B.1 Recognize and explore how objects move.

3.3 EARTH AND SPACE SCIENCES

Big Idea: The earth, which is part of a larger solar system, consists of structures, processes and cycles with affect its inhabitants.

- 3.2 OT.A.3 Notice changes in matter (e.g., snow, soil, bread dough, ice cream).