



Science and Technology/ Engineering at Home Preschoolers (3-5 yrs.)

How Children Learn

Preschoolers learn about science through play and exploration, building on their sense of curiosity about the natural world and sharing their discoveries with those around them.

Activities & Experiences

Adopt a tree. Visit a neighborhood tree and notice everything about it – the pattern of the bark, the shape of the leaves, etc. Visit regularly and note the differences. Take photos, draw pictures, and write down what your child says.

Using household items like baking sheets or cardboard, create ramps to test the speeds of different objects.

Put objects that float and objects that sink in the bath and encourage children to make predictions/ observations.

Make colored water using food coloring, encouraging children to mix the colors on absorbent or non-absorbent materials such as paper towels, wax paper, or fabric.

Make salt dough by combining 2 cups flour, 1 cup salt, and 1 cup water.

How can we support exploration and social-emotional learning?

- Play alongside your child to model safe and innovative ways to explore materials.
- Encourage your child to solve problems by allowing them space to make mistakes and try again. Invite friends or siblings to help problem-solve.
- Ask open-ended questions to help your child make predictions.

I wonder what will happen if...

John, can Laura help you fill your bucket with sand?

Which objects do you think will float? Why?