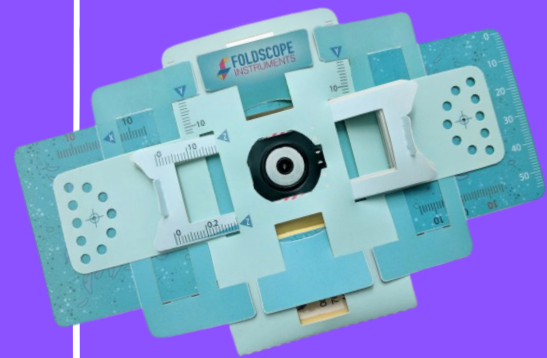


FOLDSCOPE SCIENCE FAIR



Science Fair Resources for Teachers, Parents and Students

<https://www.sciencebuddies.org/teacher-resources/science-fair-tools#scienceprojectresources>

<https://www.sciencebuddies.org/parent-resources/preparing-you-and-your-child-for-science-fair-success#tc-aae>

<https://www.jpl.nasa.gov/edu/teach/activity/how-to-do-a-science-fair-project/>

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Ideas for a Research Project

- **Soil Salinity and Plants**

When there is a drought (like right now!), people have to water their lawns and crops with water from wells or the city. If this irrigation water is high in salts, the salt can build up in the soil. What does high soil salinity do to plants? Can we see differences in these plants' cells under the Foldscope? What does this mean for farmers and landscapers? Can we see differences in how salinated soil looks under the Foldscope?

- **Water Pollution and Pond Organisms**

Does water pollution affect the number and types of microorganisms living in water? Can we see differences in the microorganisms in water from different sources under the Foldscope? What does this mean for the health of our waterways and for fishermen/women?

- **Bird Feathers and Their Functions**

What will we see when we look at different bird feathers that we find on the ground? What are the functions of bird feathers (flight, water repellent, warmth)? How does the structure of the feathers we see in the Foldscope contribute to the function? How might we expect feathers from different birds to look different under our Foldscope depending on where they live and their adaptations?