

# LAES Steam Fair

## Project Ideas Grades 4-6

---

Making pH indicators from plant materials  
Comparisons of pH in shampoos, soils  
Sugar content of foods  
Water content of foods  
Boiling/freezing point of liquids  
Comparison of taste receptors on the tongue  
Diffusion  
Osmosis  
Measuring surface tension  
How color affects heat absorption  
Solar heating devices  
Comparison of insulations  
Temperature variations through a house  
Building a camera  
Making paper  
Aerodynamics  
Testing soil porosity  
Erosion  
Weather phenomena  
How birds fly  
Pendulums  
Static electricity  
Plant growth comparisons  
Plant propagation from leaves, stems, roots  
Testing for nutrients  
Earth science phenomena: volcanoes, earthquakes, tidal waves  
Workings of electronic devices  
Rocks and how they were formed  
The senses: touch, taste, sight, hearing, smell  
The biology of speech and sound