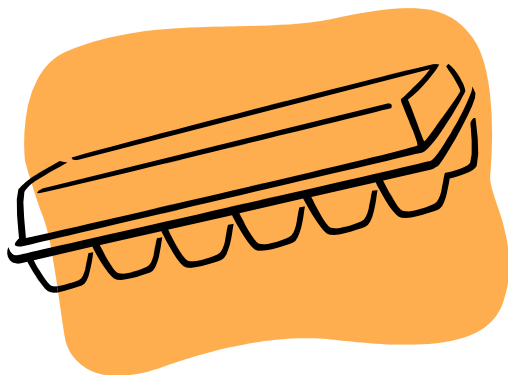


# It Fits!

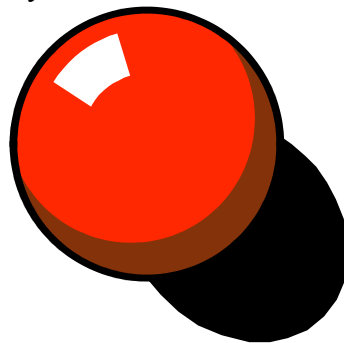
*Exploring Layers, Faces, and Grids*

**Sunday, November 12, 3-5 p.m.**  
**Austin Children's Museum**



Whether you're building a tower of blocks, a skyscraper, or a tiny but complex computer chip, layers are important. If one is missing, your structure may not survive. Layers need to fit together, and the faces where layers meet can influence the nature of the structure. We'll build **epitaxial** layers (where each layer is identical to the one beneath it), discover how **interfaces** are affected by

volume, and learn the impact of **defects**. And yes, your little ones will have fun! Sturdy plastic grids, spheres, and egg cartons make this activity entertaining and educational for scientists and engineers of all ages.



*This activity is brought to you by the University of Texas at Austin through a National Science Foundation IGERT grant, DGE-0549417. For more information, contact Pam Cook at (512)471-3704 or [pamcook@mail.utexas.edu](mailto:pamcook@mail.utexas.edu). To learn more about the IGERT research and graduate training program in Atomic and Molecular Imaging of Interfaces and Defects that underlies this activity, contact Professor Ken Shih, [shih@physics.utexas.edu](mailto:shih@physics.utexas.edu).*