

## NGSS Correlations

### Paper Balloon Paradox AIR-160

#### Suggested Science Idea(s)

K-2-ETS1-3

K-ESS2-1

K-ESS3-2

3-ESS2-1

5-ESS2-1

MS-ETS1-1

MS-ESS2-5

MS-ESS2-6

HS-ETS1-2

HS-ESS2-4

Students can use the Paper Balloon Paradox to explore how air pressure variations at a very simple or at extremely complex manner behave. By batting the partially inflated balloon with a hand, the balloon slowly inflates as the higher pressure outside the balloon seeks the lower pressure inside, thus air slowly seeps in through the opening. Not escaping. It is a combination of elastic waves, fluid motion and the papers' plasticity that work together in the self-inflation of the balloon. The design conceals an intricate process, which can be explored mathematically for advanced students.

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