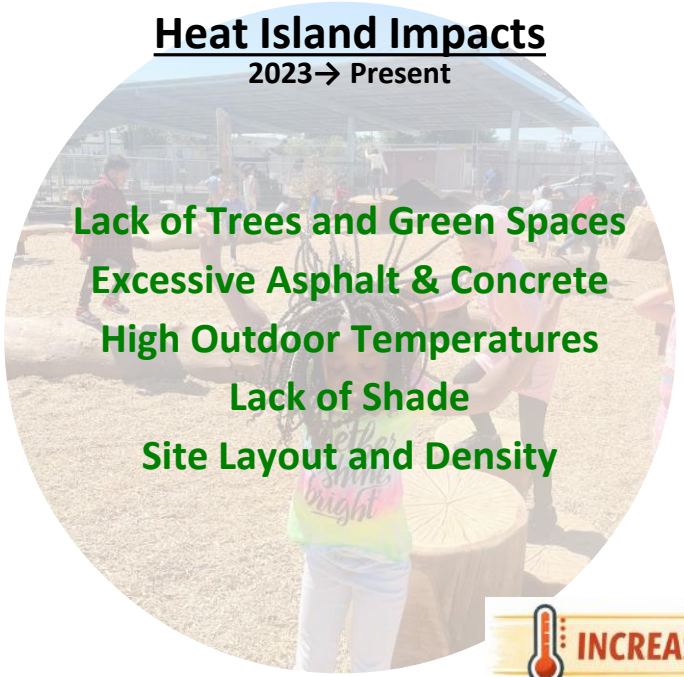
Factors Impacting Thermal Comfort in Schools

Heat Island Impacts

2023→ Present



Lack of Trees and Green Spaces

Excessive Asphalt & Concrete

High Outdoor Temperatures

Lack of Shade

Site Layout and Density

Building Systems Heat

2026→TBD

Building Layout

Lack of Insulation

Heat Retention of Building

Roof Heat Gain

Solar Gain through Windows

Lack of Ventilation Systems

Vandalism of AC Units

Lack of AC

Lack of Fans

INCREASED HEAT IN SCHOOLS

OUSD is a national leader following heat island research to transform schoolyards by removing thousands of square feet of asphalt and concrete while adding over 700 trees, 60+ playstructure shades and nature areas.