

PREVENTION | PROTECTION | RECOVERY

Fire Resilient Future brainstorm sheet

DIRECTIONS Generate at least three ideas in each category. Then compare innovation, scientific plausibility, citywide impact, environmental effects, cost, risk, and trade-offs before selecting solutions.

PREVENTION

Stop fires from starting or spreading

Risk mapping; ignition reduction; early detection; vegetation; zoning; education; power systems

PROTECTION

Keep people and systems safe during fire

Fire-resistant structures; defensible space; evacuation; firefighting; shelters; resilient utilities

RECOVERY

Restore the city and strengthen it afterward

Housing; rebuilding; ecosystems; air/water; utilities; business continuity; health and community support

Idea Comparison

Category & idea	How it works	Why futuristic?	Benefits	Risks / trade-offs	Essay, model & presentation evidence



Selection Test

- ☐ We selected at least one strong solution for prevention, protection, and recovery.
- ☐ Each solution is innovative, scientifically possible, and connected to city design.
- ☐ We can explain engineering roles, environmental impacts, benefits, risks, and trade-offs.
- ☐ Each solution appears consistently in the essay, model, presentation, and Q&A.