

PRIMARY ENGINEERS

SHAKING THINGS UP

Earthquakes are caused by the release of built-up pressure at plate boundaries, consequently destroying buildings and structures. Engineers work hard to design buildings to withstand earthquakes so that they can withstand the impact of an earthquake and prevent them from collapsing.

EARTHQUAKE RESISTANT BUILDINGS



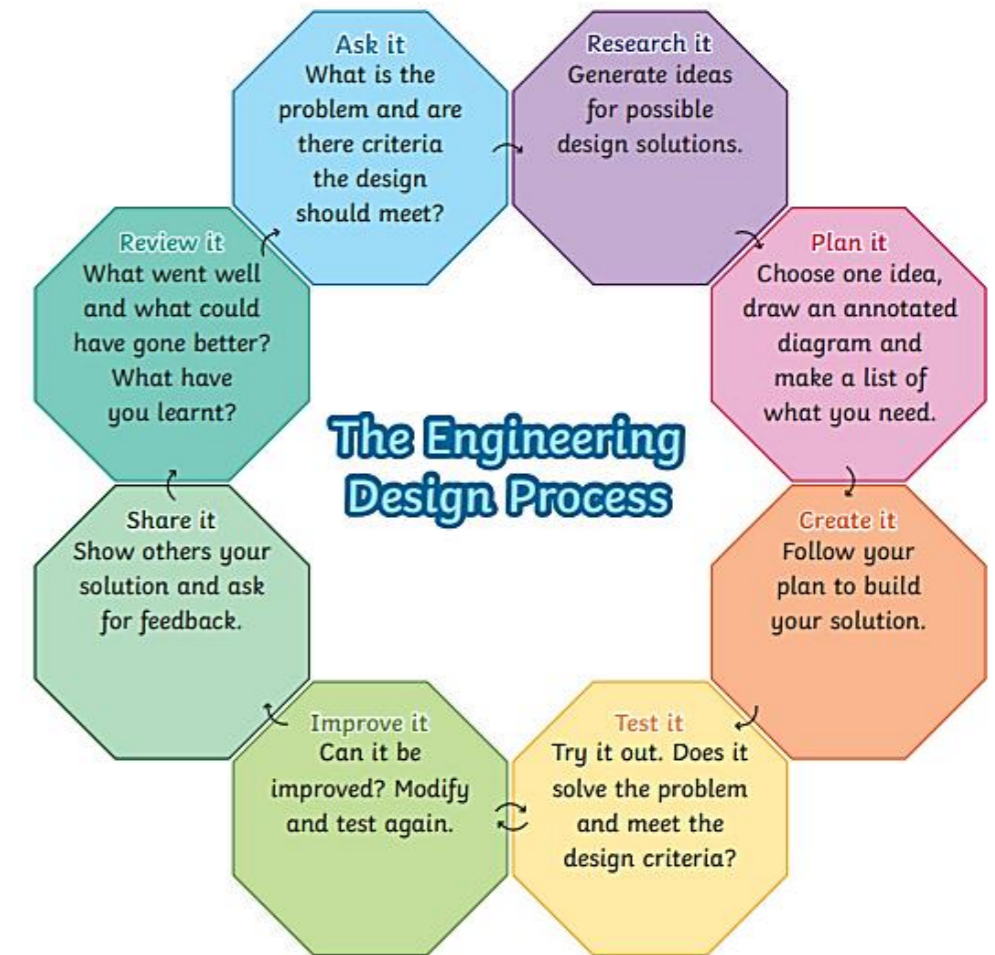
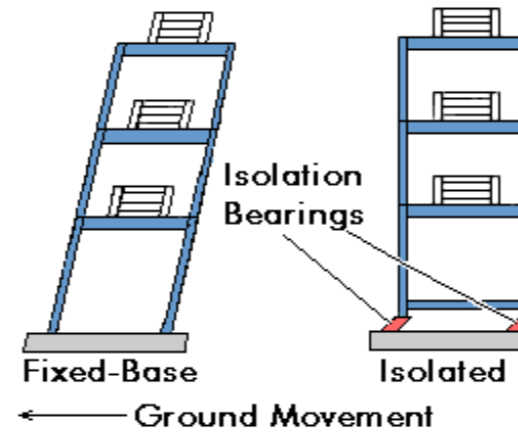
Sabiha Gokcen International Airport is one of the world's most earthquake-proof buildings.



The Transamerica Pyramid, San Francisco.

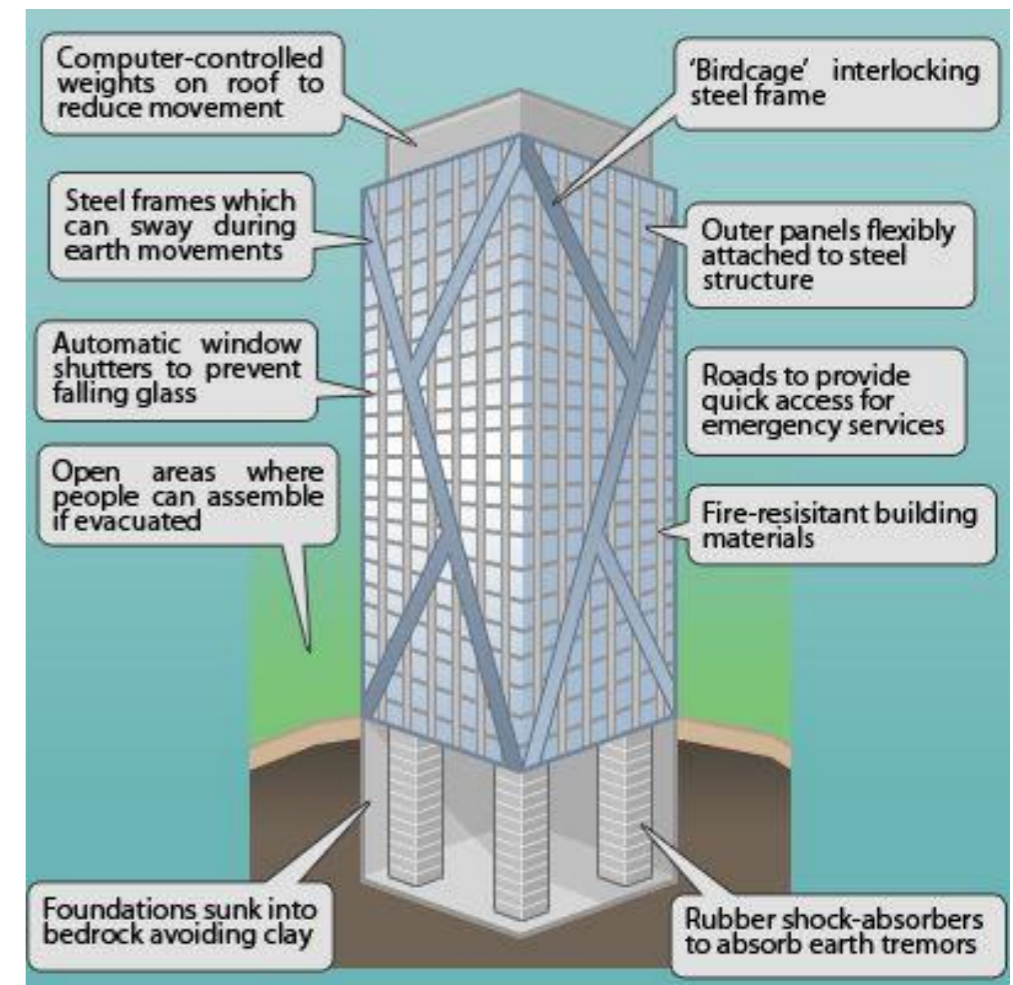
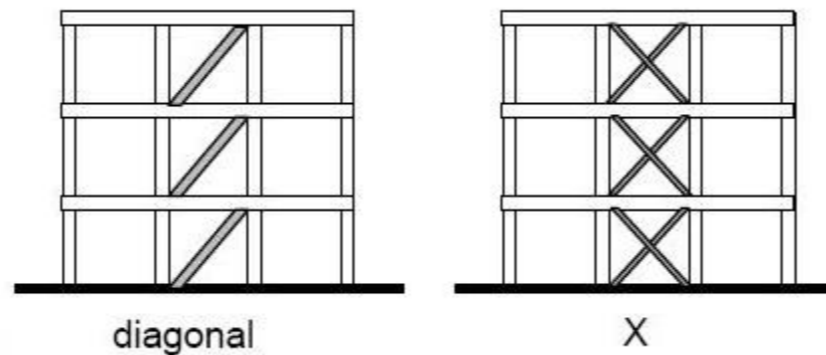


The Burj Khalifa is also specially designed to resist earthquakes.



TYPE OF BRACING

A bracing system is an essential part of the building structure.



Key Vocabulary

| | | | |
|-----------------------|---|------------------|---|
| Adhesion | Adhesion is a force between two surfaces. | Modify | To change something to improve or fix it. |
| Bracing | Serving a brace to a structure. | Prototype | A simple model that lets you test out your idea and how it will look and work. |
| Counterbalance | A weight that balances another weight. | Reinforce | To make a structure or material stronger, especially by adding another material or element to it. |
| Isolated | To be built away from the ground. | Structure | Something that stands, usually on its own. |