

Design Challenge Badges

Glossary for Brownies

Brownies may not know some of the words used in these badges. Here are definitions you can share with them:

Balanced forces exist when forces are equal on an object. When the forces are balanced, the object does not move.

Data is information that engineers receive, collect, or observe during testing of their designs.

Drag is the force (air molecules) that acts against something in flight.

Engineers are people who like to know how things work. They design and build things people use every day, like computers, phones, roads, bridges and cars.

Features are parts of a product that are designed make them more useful.

Force is the strength or energy that creates movement. Push and pull are examples of force.

Friction is a force that slows moving objects.

Gravity is a force that pulls objects toward each other and towards the earth.

When potential energy is released, it becomes **kinetic energy** which bring bodies and object to move.

Lift is a force that pushes back up on the wings during flight.

Potential energy is the energy stored in your body and everything else in our world.

Thrust is the force that moves an object.

Unbalanced forces exist when forces are unequal on an object. When the forces are unbalanced, it moves in the direction of the greater force.