

BROADCASTING

WATCHING SPORTS ON TV

How do we see sports on TV? Space! Satellites are needed to send TV signals around the world to your TV screen.



The Earth is round and signals can't bend around its curved surface. We use satellites to send signals from one place to another.

SENDING A SATELLITE TO SPACE

To get into orbit a satellite must travel on a rocket. Rockets go 25,000 mph to overcome gravity leave Earth's atmosphere and reach space.

Satellites use the rockets momentum to go into orbit.



GRAVITY

Gravity is the force that attracts things down towards the center of the earth.

Orbit is a path an object takes around a planet or star. For example, the Earth orbits the Sun.

Momentum is motion of an object. For example, when you throw a bowling ball it has momentum.

Why don't satellites fall out of space? There are thousands of satellites for our TV's and phones orbiting earth, but what keeps them from just falling out of the sky?

Gravity is stronger the closer you are to earth, in orbit the momentum of the satellite balances the pull of Earth's gravity with the path of its orbit.

You don't have to worry about a satellite falling to earth they stay like this for hundreds of years.

What does gravity do to your golf ball?

ROLE PLAY

Be a sports presenter. Find something you can use as a microphone and interview volunteers in your house. Think about how a presenter has to smile for the camera and speak clearly.

Here are a few questions to help you, think of two of your own to ask also.

1. Who is your inspiration?
2. How do you overcome challenges?
3. What is your favorite golfer?
4. Do you have any advice for me?

1. _____

2. _____

