Gravity pulls down on all parts of an object. Altogether, it acts as if a single force was pulling at one point. This point is called the center of gravity.

For something to balance, the center of gravity must be supported. As long as their center of gravity is supported, things can't fall.

How far can you make the tower extend?

Everything Has a Center of Gravity!

Does this look familiar?
(Hint: Look at your blocks!)

People have a center of gravity, too!

This tower has been leaning for 800 years - and still hasn’t fallen!

What about you?

Can you stand on one foot like this goose?
Where is your center of gravity?

If your center of gravity is supported, you can stand in all sorts of positions!
Stack the Blocks Here

Can you make the top block reach to here?

... or here?

... or here?
(bye top block is now completely off the bottom one. Look!)

... how about here!?
(yes, it's possible!)