JUMPY MONKEY



This new block contains the variable "Gravity", which makes the monkey fall faster each time the loop runs.

GAME PROGRESS

eal world gravity

In the real world, when you try to throw something in a straight line it curves slowly back toward the ground as gravity pulls it down. To make the game work in the same way, you move the monkey along the straight line, but also add a downward move after each shift along that line, to create the same effect as the constant downward tug of gravity. This allows the monkey's movement to seem natural, making the game more engaging.



Run the project again—you can now direct the monkey over the tree to reach the tricky low bananas. But how exactly is the Scratch gravity working? Every second, the monkey falls a little bit faster than the second before, creating a downward curve.

to here. It falls by an increasing amount each second.

Without gravity the

monkey would get

Falls this far in the second second.

Falls this far in the

first second.

 \lhd Falling faster

the "repeat" loop runs.

The "FallSpeed" variable makes the monkey fall farther each time

Falls this far in the third second.

riangle Gravity effect

When "FallSpeed" is combined with the straight line from the Launcher, the monkey's path curves back toward the ground in a realistic manner.

The monkey moves sideways by the same amount each second.

> With gravity the . monkey ends up here.