

In Class 10/29 – Physics

1. Consider the scenario where a circle is moving downwards and bounces when it reaches the bottom of the window.



what changes?	position (y) speed (y)	gravity and bouncing means the speed also changes
is this a situation that calls for making choices, repetition, or neither of this?	making choices	while the circle does sometimes move up and sometimes move down, we've removed the decision about which direction by having a variable for speed – position is always updated by adding speed, and speed is always updating by adding acceleration the decision is thus about bouncing, since that involves a different update for speed that only happens sometimes
what happens differently, or only sometimes?	the circle only bounces sometimes	identify the alternatives for this decision
what are the alternatives?	bounce, or don't bounce	identify what the decision is based on, not the exact criteria
how do we decide between them?	based on the position of the bottom of the circle	
on the spot or prior happenings?	on the spot	