Zombie game recipe

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Change properties of baseplate and spawn point

- 1. Set size of baseplate to (200,8,200).
- 2. In baseplate's texture's properties, ensure Texture is set to https://create.roblox.com/store/asset/36403586/Grass-Texture, Transparency to 0.4, studspertileu and studspertilev to 8.
- 3. Set night sky to sky from this link https://create.roblox.com/store/asset/661640091/Night-sky .
- 4. Get this decal https://create.roblox.com/store/asset/10877494056/Zombie . Drag and drop it on spawn point. Set spawn point's position to (-82, -3.5, -80).

Create zombie spawn points

- 1. Create a folder called 'Spawns' in workspace.
- 2. In that folder, use '+' symbol to create part. Set size to (4,0.4,3). Set material to brick, color to green. Rename to Sp1.
- 3. To Sp1 using '+' add point light of color green, brightness 15, range 8.
- 4. To Sp1 using '+' add smoke. For smoke in properties, color = green, opacity = 0.1, risevelocity = 1, size = 0.1, timescale = 1.
- 5. Move Sp1 to a corner away from spawn point. Duplicate Sp1 to Sp2 and put it in another corner and similarly Sp3 in another corner.

- 6. Use this link https://create.roblox.com/store/asset/3924238625/Drooling-Zombie-Rthro and GetModel. Drag drop from inventory to 3d view.
- 7. Play and see. Go near zombie and see! Escape! Stop the game.
- 8. Drag drop zombie from workspace to replicated storage.
- 9. Add a script to Spawns folder and add the code below.

```
local spawns = script.Parent
local spawntime = 10
local wave = 0
local health = 100
while true do
   wait(spawntime)
   wave = wave + 1
   for _,spn in pairs(spawns:GetChildren()) do
          if spn:IsA("Part") then
                  local zCopy = game.ReplicatedStorage["Zombie"]:Clone()
                  zCopy.Parent = game.Workspace
                  zCopy.HumanoidRootPart.CFrame
                                                             CFrame.new(spn.Position
Vector3.new(0,3,0))
                  zCopy.Humanoid.Health = health
          end
   end
end
```

- 10. Basically, we have a continuous while loop, which, every 10 seconds (spawntime), spawns one zombie from spawn point location (Sp1, Sp2, Sp3 etc..) in a for loop. Note, we are cloning the zombie stored in replicated storage. Once cloned, it's parent is workspace and health is 100 (stored in health variable).
- 11. Play and see. Must see many zombies spawning and attacking when we go close.

Create standing zombie with 'wave information'

- 1. Drag drop zombie from inventory to 3d view. Put it in center of spawn points and player spawn. Right click on zombie in explorer and choose 'Disable Scripts'. In the properties, set scale to 1.6.
- 2. Play and see. Zombie just stands there.
- 3. To zombie, add a 'BillboardGui'. In properties, set Extents offset to (0,1.2,0) to make it appear over zombie's head.
- 4. To 'BillboardGui' add TextLabel. In the Textlabel properties, set the backgroundtransperency to 1, text color to white, text to Wave and text size to 58, fontface to 'permanent marker'.
- 5. Play and see. Not matter where you go, the billboard always faces you.
- 6. To Script in Spawns folder add below line just before the line wait(spawntime)
- 7. game.Workspace.Zombie.BillboardGui.TextLabel.Text = "Wave "..tostring(wave)
- 8. This is basically concatenating string "Wave" and the number wave (converted to string) and assigning it to Text property of TextLabel.
- 9. Play and see. Every time wave increments, you will see a new zombie at each spawn point.

Make the Wand tool

- Use this link https://create.roblox.com/store/asset/5335782936/Magic-wand do GetModel and get it into inventory. Drag drop it to 3d view. Delete all scripts which are children of the model. Delete event which is child of model. We will add it later.
- 2. Play and see. Gamer must be able to pick up the wand.
- 3. To the Wand (tool), using '+' add a local script, rename to Shoot. And add a remote event rename to ShootRe. In the Shoot local script add below code.

```
local debounce = false
local wand = script.Parent
local shootRe = wand:WaitForChild("ShootRe")
local player = nil
local mouse = nil
local connection = nil
local function onActivated()
```

debounce = true

```
shootRe:FireServer(mouse.Target)
          wait(1)
          debounce = false
   end
end
local function on Equipped()
   player = game.Players.LocalPlayer
   mouse = player:GetMouse()
   connection = wand.Activated:Connect(onActivated)
end
local function on Unequipped()
   player = nil
   mouse = nil
   connection.Disconnect(connection)
end
wand.Equipped:Connect(onEquipped)
```

- 4. Basically, this code is 'firing' or 'executing' remote even ShootRe, when we equip ourselves with wand. When equipped we are calling onEquipped() function and when un-equipped we are calling onUnequipped() function. In onEquipped() we are getting player, his mouse and when mouse left button is clicked, we are calling onActivated() function. In OnActivated() we are firing the remote event, which will be used to shoot at zombies. We are having debounce not shot shoot many times, but limit it to 1 time per second.
- 5. To the Wand (tool), using '+' add a script, rename to Damage. In that add the below code.

local shootRe = script.Parent:WaitForChild("ShootRe")

wand.Unequipped:Connect(onUnequipped)

```
local char = player.Character
local charFr = char.HumanoidRootPart.CFrame

if target and target.Parent then
local hum = target.Parent:FindFirstChild("Humanoid")
if hum then
print('target hit using mouse pointer')
end
end
end
```

shootRe.OnServerEvent:Connect(onShoot)

- 6. This code 'catches' the shootRe even and executes onShot function when event is fired. We get both player and target to shoot (user has used his mouse to point to the target and has clicked left mouse button). We first check if that target is a zombie which has Humanoid, then we just print a message.
- 7. Play and see. Equip wand with key1. Then like first person game, point to zombie and do a left click. See the message printed out. If you try to shoot to any other point, message is not printed.

Make the fireball

- 1. First, move the Magicwand into StarterPack so that when user spawns it is already with him. Make Wand direct child of StarterPack and then delete Magicwand.
- 2. Play and see. Wand must already be with player. Equip and Unequip by pressing 1.
- 3. GetAudio using this link https://create.roblox.com/store/asset/9118661490/Rock-Rolls-Down-Concrete-Ramp-Tumble-1-SFX insert into a folder called SFX under workspace. Rename to BoulderRollSfx.
- 4. Insert part->sphere to 3d world. Give material brick and color yellow. Rename to Fireball. Use '+' next to Fireball and add fire. For fire, in properties set size to 8.
- 5. Move the Fireball to ServerStorage.
- 6. Add below code to top of Damage Script.

local bang = game.Workspace.SFX.BoulderRollSfx

local fireball = game.ServerStorage:WaitForChild("Fireball")

7. Instead of print('target hit using mouse pointer') add below code.

```
bang:Play()
local newFb = fireball:Clone()
newFb.Parent = game.Workspace
```

- 8. Play and see. Try to 'shoot' zombies. Fireboulder appears in a particular location (where it was created), but does not move, rolling sound is heard.
- 9. To make the boulder move we need to give it position and velocity.
- 10. For that add below code after the above code.

local tpFr = target.Parent.HumanoidRootPart.CFrame

```
local vTo = tpFr.Position - charFr.Position

vTo = vTo.Unit

newFb.CFrame = CFrame.new(charFr.Position)*CFrame.new(vTo*0.3)

local bodyVel = Instance.new("BodyVelocity")

bodyVel.Velocity = vTo*20

bodyVel.Parent = newFb

game.Debris:AddItem(newFb, 10)
```

- 11. Play and see. If you point your mouse and zombie and 'shoot' using left mouse button, you will be able to 'hurl a fire boulder' towards the zombie.
- 12. Above code first calculates the vTo (direction in which boulder must be rolled). Then it set's newly cloned boulders' position to character's position, plus, some distance toward target. Then we create a velocity object and make new boulder it's parent. Also we need to add boulder to game. Debris as it should spend 10 seconds in game and then should be automatically destroyed.
- 13. Add below code after above code to kill the zombie when boulder hits it.

```
newFb.Touched:Connect(function(hit)

local chldH = hit.Parent:FindFirstChild("Humanoid")

if chldH ~= nil then

if hit.Parent.Name ~= player.Name then

chldH:TakeDamage(100)

end
```

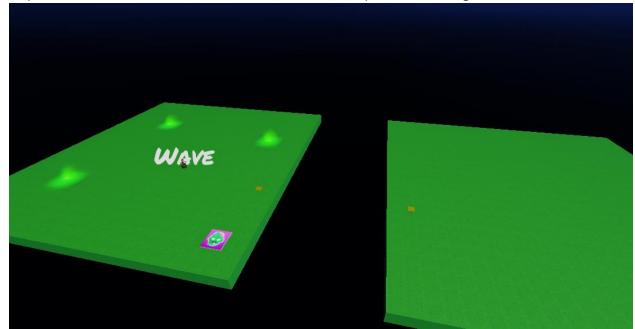
end

end)

14. Play and see. Any zombie coming in boulder's way are killed!

Teleport to next level

- 1. Duplicate the Baseplate and rename to Baseplate 2. Drag it to the right so that there is space between them.
- 2. Create a part->block. Make it's size (4,0.5,4). Anchor it. Rename to Pad1. Give it diamond plate material and yellow (or any desired) color. Put it on Baseplate near an edge.
- 3. Duplicate the Pad1, rename to Pad2 and move it on Baseplate2. See image below.



- 5. In explorer, in starterCharacterScripts add a 'boolean' value. Rename it to 'CurrentlyTeleporting'.
- 6. Add a script to Pad1 and add the code below.

local pad = game.Workspace.Pad2

script.Parent.Touched:Connect(function(hit)

local plyr = game.Players:GetPlayerFromCharacter(hit.Parent)

if plyr then

4.

local currTel = plyr.Character:FindFirstChild("CurrentlyTeleporting")

```
if not currTel.Value end

if not currTel.Value then

currTel.Value = true

plyr.Character.HumanoidRootPart.CFrame = pad.CFrame +

Vector3.new(0,5,0)

wait(3)

currTel.Value = false

end

end

end
```

- 7. Play and see. When player steps on Pad1, he gets 'teleported' to Pad2.
- 8. (Optional) can add Pad1a and Pad2a to teleport from Baseplate2 to Baseplate. Using same code as above.

Spider attack

- 1. Use this link https://create.roblox.com/store/asset/11717154549/Enemy-Spider and do GetModel. Drag and drop it on Baseplate2.
- 2. To kill the spider with boulder, update the StarterPack -> wand->Damage script to below.

local shootRe = script.Parent:WaitForChild("ShootRe")

```
local bang = game.Workspace.SFX.BoulderRollSfx
local fireball = game.ServerStorage:WaitForChild("Fireball")
local function onShoot(player, target)
```

local charFr = char.HumanoidRootPart.CFrame

local char = player.Character

```
local hum = target.Parent:FindFirstChild("Humanoid")
local hum2 = target.Parent:FindFirstChild("Torso")
if hum or hum2 then
       bang:Play()
       local newFb = fireball:Clone()
       newFb.Parent = game.Workspace
       local tpFr = nil
       if target.Parent:FindFirstChild("HumanoidRootPart") ~= nil then
              tpFr = target.Parent.HumanoidRootPart.CFrame
       else
              tpFr = target.Parent.Torso.CFrame
       end
       local vTo = tpFr.Position - charFr.Position
       vTo = vTo.Unit
       newFb.CFrame = CFrame.new(charFr.Position)*CFrame.new(vTo*0.3)
       local bodyVel = Instance.new("BodyVelocity")
       bodyVel.Velocity = vTo*20
       bodyVel.Parent = newFb
       game.Debris:AddItem(newFb, 10)
       newFb.Touched:Connect(function(hit)
               local chldH = hit.Parent:FindFirstChild("Humanoid")
```

```
if chldH ~= nil then
                                if hit.Parent.Name ~= player.Name then
                                       chldH:TakeDamage(100)
                                end
                         end
                  end)
          end
   end
end
shootRe.OnServerEvent:Connect(onShoot)
3. Basically extra code added is - local hum2 = target.Parent:FindFirstChild("Torso") and if
   target.Parent:FindFirstChild("HumanoidRootPart") ~= nil then and else part tpFr =
   target.Parent.Torso.CFrame
4. Replace the code in EnemySpider->Respawn script to below code
local robo=script.Parent:clone()
while true do
   wait(2)
   if script.Parent.Humanoid.Health<1 then
          wait(3)
          script.Parent:Destroy()
          break
   end
```

5. Play, teleport to Baseplate2 and see. You must be able to kill the spider by clicking on it with mouse and 'shooting a boulder' towards it.

end

Spawning spider from spawn points

- 1. In workspace create a folder 'Spawns2' just like 'Spawns'.
- 2. Duplicate Sp1 and move to Baseplate2, rename to Sp1a. In explorer drag and drop it to Spawns2. Duplicate Sp1a to Sp2a and Sp3a and put them in couple of other locations.
- 3. Drag drop 'Enemy Spider' into ReplicatedStorage.
- 4. Add a script to Spawns2, add the code below.

```
local spawns = script.Parent
local spawntime = 10
local health = 100

while true do
    wait(spawntime)

for _,spn in pairs(spawns:GetChildren()) do
    if spn:IsA("Part") then
        local zCopy = game.ReplicatedStorage["Enemy Spider"]:Clone()
        zCopy.Parent = game.Workspace
        zCopy.Torso.CFrame = CFrame.new(spn.Position + Vector3.new(0,3,0))
        zCopy.Humanoid.Health = health
        zCopy:makeJoints()
    end
end
```

5. Play and see. Every 10 seconds one spider will spawn from each of Sp1a, Sp2a and Sp3a and player will be able to kill them by hurling boulders at them.

Getting points and winning

- 1. In workspace add IntValue and rename it to Points.
- 2. In the starterpack->Wand->Damage script add below line after chldH:TakeDamage(100)
- 3. workspace.Points.Value = workspace.Points.Value + 1

4. To StarterGUI, add ScreenGUI. To that add a frame color and size appropriately. To the frame add text label, color and size appropriately. To the label add local script and add the code below.

local function updatepoints()

```
script.Parent.Text = "Points: " .. tostring(workspace.Points.Value)
```

end

workspace.Points.Changed:Connect(updatepoints)



- 6. Play and see, you should see the points as shown in above image.
- 7. Add another textLabel to Frame and have the text 'You have won the match!'. In properties uncheck the visible. Rename to WonLabel.

script.Parent.Parent.WonLabel.Text = "You have won the match!"

8. Update the above code to – local function PauseGame() for i,v in pairs(game:GetDescendants()) do if v:IsA("BasePart") then v.Anchored = true elseif v:IsA("Script") or v:IsA("LocalScript") then v.Disabled = true end end end
local function updatepoints()

if workspace.Points.Value > 500 then

```
workspace.Won.Value = true
script.Parent.Parent.WonLabel.Visible = true
wait(2)
PauseGame()
else
script.Parent.Text = "Points: " .. tostring(workspace.Points.Value)
end
end
```

workspace.Points.Changed:Connect(updatepoints)

- 9. Update the Spawn scripts to say if we have won, spawn function while loop can 'break'.
- 10. Update while loop statement as -

while workspace.Won.Value == false do

- 11. Play and see.
- 12. Player must be able to hurl boulders at zombies and spiders and kill them and earn points and as soon as you earn more that 500 points, you must be able to win the game! Enjoy!

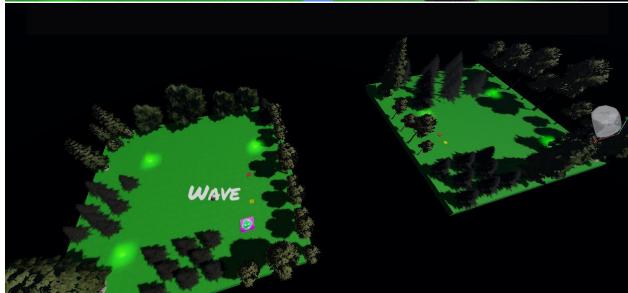
Decorating both stages (optional)

- 1. Use the below links and do 'GetModel'
 - a. https://create.roblox.com/store/asset/3256343670/Realistic-Trees
 - b. https://create.roblox.com/store/asset/2309193275/pine-tree
 - c. https://create.roblox.com/store/asset/9271152246/Realistic-Tree
 - d. https://create.roblox.com/store/asset/18965522634/Trees-PBR-Moving
- 2. Use the models to place trees in the border of baseplate and baseplate2
- 3. Design the level as you wish!



4.





6. 7.

5.