

Fireball Sword



Goals For Our Plugin

Add a new file called plugins/fireballSword.js

Todo:

- Create a sword that shoots fireballs when swung
- Fireballs should only destroy mobs (not blocks or yourself)
- Special recipe to craft the sword
- Only shoot fireballs at full health

```
function onArmSwing(event) {
  var player = event.player;
 player.chat('Swing that arm!');
events.playerInteract(onArmSwing);
```

Arm Swing Event Hook

```
var items = require('items');
var entities = require('entities');
function shootFireball(player) {
  var entityType = entities.fireball();
  var eyeLevel = player.getEyeLocation();
  var world = player.getWorld();
  var fireball = world.spawnEntity(eyeLevel, entityType);
  fireball.setShooter(player);
```

```
function onArmSwing(event)
 player.chat(...);
 shootFireball(player);
```

Spawning the Fireball

```
var items = require('items');
var entities = require('entities');
function shootFireball(player) {
  var entityType = entities.fireball();
  var eyeLevel = player.getEyeLocation();
  var world = player.getWorld();
  var fireball = world.spawnEntity(eyeLevel, entityType);
  fireball.setShooter(player);
  fireball.setVelocity(eyeLevel.getDirection().multiply(5));
```

Fireball Velocity

```
function shootFireball(player) {
 var fireball = world.spawnEntity(eyeLevel, entityType);
  /* prevent fireball from destroying blocks */
  fireball.setYield(0);
 fling( player, fireball, 3 );
  fireball.setShooter(player);
```

Stop Destroying Blocks

```
var items = require('items');
function onArmSwing(event) {
 var player = event.player;
  var item = player.getItemInHand();
  If ( isFireballSword( item ) ) {
      shootFireball(player);
```

```
function isFireballSword(item) {
  if ( item.getType() ==
       items.diamondSword() ) {
    return true;
  return false;
events.playerInteract(onArmSwing);
```

Check for Item in Hand

```
var bkEnchant = org.bukkit.enchantments.Enchantment;
var item = items.diamondSword(1);
var meta = item.getItemMeta();
meta.setDisplayName("Fireball Sword");
item.setItemMeta(meta);
item.addUnsafeEnchantment(bkEnchant.LUCK, 3);
var recipe = new Object();
recipe.result = item;
```

```
recipe.ingredients = {
    B: items.blazeRod(1),
    D: items.diamond(1),
    S: items.stick(1)
  };
recipe.shape = [ 'BDB',
                 'BDB',
                 'BSB' 1:
var recipes = require('recipes');
recipes.add( recipe );
```

Special Crafting Recipe



Visualizing the Recipe Shape



Visualizing the Recipe Shape

```
function isFireballSword(item) {
 var luckLevel = item.getEnchantmentLevel(bkEnchant.LUCK)
 if (item.getType() == items.diamondSword() && luckLevel == 3 ) {
     return true;
 return false;
```

Checking for the Enchantment

```
function onArmSwing(event) {
 var player = event.player;
  var itemInHand = player.getItemInHand();
  If ( player.getHealth() == 20 && isFireballSword( itemInHand ) ) {
      shootFireball(player);
```

Tie to Player Health

That's all!

Now you should have a fully working fireball sword!