

## ★ MILD CHALLENGE

### Sun-Earth-Moon System

#### ✓ Your Mission:

- ☐ Put the Sun in the center (it's the biggest!)
- ☐ Make Earth go around the Sun using **forever** blocks
- ☐ Make the Moon go around Earth using **run parallel**

#### ★ Key Words:

**Orbit:** The path something takes around another object

**Solar System:** The Sun and everything that goes around it

#### 🚀 Speed Suggestions:

**Earth:** 15 seconds to go around the Sun

**Moon:** 3 seconds to go around Earth

#### 🆘 Getting Stuck?

- Your Sun and Earth are already there! •
- Add the Moon and make it orbit Earth
- Try different speeds until it looks realistic



## ★★ HOT CHALLENGE

### Inner Solar System (5 Objects)

#### ✓ Your Mission:

- ☐ Add Mercury, Venus, and Mars using **run parallel**
- ☐ Put planets in the right order from the Sun
- ☐ Use **forever** blocks to make them move at different speeds

#### ★ Planet Order (closest to farthest):

1. **Mercury** (fastest)
2. **Venus**
3. **Earth**
4. **Mars** (slowest)

#### 🚀 Speed Suggestions:

**Mercury:** 5 seconds

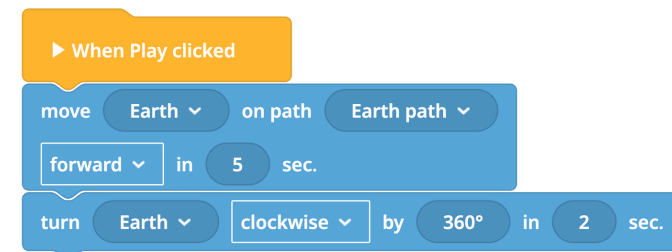
**Venus:** 10 seconds

**Earth:** 15 seconds

**Mars:** 20 seconds

#### 🆘 Getting Stuck?

- Sun and Earth are already in your template!
- Add Mercury, Venus, Mars in the right order
- Use the speed suggestions above



## ★★★ SPICY CHALLENGE

### FullSolarSystem + Rotation

#### ✓ Your Mission:

- ☐ Add all 8 planets using **run parallel**
- ☐ Use **forever** blocks for different orbit speeds
- ☐ Add planet rotation (spinning) - advanced!

#### ☀ All 8 Planets:

**Inner:** Mercury, Venus, Earth, Mars

**Outer:** Jupiter, Saturn, Uranus, Neptune

**Rotation:** Planets spinning like tops

#### 🚀 Speed Suggestions:

**Mercury:** 5 sec

**Venus:** 10 sec

**Earth:** 15 sec

**Mars:** 20 sec

**Jupiter:** 25 sec

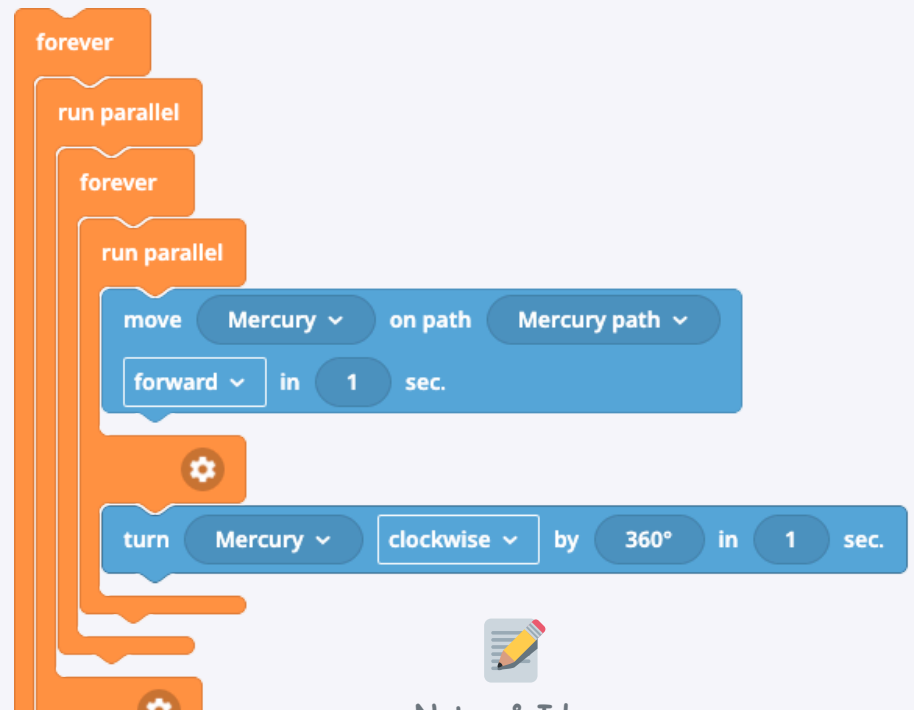
**Saturn:** 30 sec

**Uranus:** 35 sec

**Neptune:** 40 sec

#### 🆘 Getting Stuck?

- Sun and Earth are in your template - build from there!
- Add planets one at a time using the speeds above
- Ask for help with the spinning (rotation) part
- Work with a partner - this is the hardest challenge!



#### Notes & Ideas

Use this space for  
additional challenges  
or student notes