⭐ 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
Full Solar System + 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	**Jupiter:** 25 sec
Venus: 10 sec	**Saturn:** 30 sec
Earth: 15 sec	**Uranus:** 35 sec
Mars: 20 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