

Field solar system



Overview

I'll walk you through what qualifies as a planet, how the Solar System likely formed, how the planets organize into meaningful “architectural layers,” and what makes each planet distinct—size, composition, atmosphere, rotation, temperatures, and moons. In another effort to bring these vast distances down to Earth, we've shrunk the solar system down to the size of a football field. Needless to say, our solar system doesn't fit real well on paper — or a Web site. Pluto is very far away! The purpose of today's lab is to allow you to develop a better appreciation for the distances between the largest objects in our solar system, and the physical sizes of these objects relative to each other. That means the Sun will be on the 0-yard line, and Pluto is at the 100-yard line. The system formed about 4. 6 billion years ago when a dense region of a molecular cloud collapsed, creating the Sun and a protoplanetary disc. If you're building anything from an animation to a game mechanic to a scientific notebook, you need two things: (1) a correct mental model of what the eight planets actually are, and (2) a pragmatic way to represent them without lying to your users (or to yourself) via oversimplified assumptions.



Article Content

Solar System

Use these resources to learn about the work of National Geographic Explorers including Munazza Alam, Cynthia Chiang and Sophie Dia Pegrum, and to teach students about the objects and relationships ...

Football Solar System Lab

To achieve this goal, we will use the length of a football field as our platform for developing a scale model of the Solar System. A scale model is simply a tool whereby we can use manageable ...

Copy of Solar system on a football field

Between 30-50k AU Oort Cloud is located between 100-400 thousand yards from the end zone. Between 50k - 200 k AU On this scale, the Oort Cloud would be located 57 miles from our school, ...

Solar System - Definition, Facts, Planets

Learn about the solar system in astronomy. Get its definition, discover the planets in order, and get interesting facts.

How Big Is the Solar System?

In an effort to bring its vast distances down to Earth, we've shrunk the solar system to the size of a football field.

Solar System

Besides solar energy, the primary characteristic of the Solar System enabling the presence of life is the heliosphere and planetary magnetic fields (for those planets that have them).

The Size of the Solar System

We are making a scale solar system, where 40 AU - the distance from the Sun to Pluto - is the equivalent of 100 yards. That means the Sun will be on the 0-yard line, and Pluto is at the 100-yard line.

Planets in Our Solar System: A Programmer's Field Guide to Eight ...

The Solar System looks tidy from a poster—eight dots in a line—but it's messy in the way real systems are messy: weird edge cases, inconsistent parameters, and one gigantic central ...

7 Scale Model of the Solar System

We will properly distribute our planets on the football field in the same relative way they are distributed in the real Solar System. The length of the football field will represent the distance between the Sun ...

Football field Solar System

On our football field, you'd find them scattered like so many slow-moving linebackers between the four and eight yard lines. In real distances that's an average of roughly 300,000,000 to 600,000,000 km ...

Contact Us

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