

The Scale of the Solar System: Outside Lab

Purpose: This lab you will scale our Solar System, accurately, on a football field. This lab has been designed to show students how vast our Solar System actually is.

Hypothesis & Prelab Questions:

1. Draw a model of the Solar System in the space below to the best of your ability. Draw the Sun & 8 Planets.
2. How are the planets spaced in your model? Evenly spaced, Non-even, etc.. Explain why you drew your mode like that.
3. If the Sun were only **4 cm across**, the size of a ping pong ball, and placed on the back of the end zone on a football field. How far away would Earth be orbiting from the model Sun?



Walking It Out: Outside Part

4. Using the cut-outs place the planets at the given distances below. Start off by placing the Sun on the back end of the endzone.

Planets	Scaled Distance
Mercury	1.8 yards
Venus	3.4 yards
Earth	4.7 yards
Mars	7.2 yards
Jupiter	24.5 yards
Saturn	45 yards
Uranus	90 yards
Neptune	141 yards



Physics Solar System Simulation Lab Answers

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ERDA Energy Research Abstracts United States. Energy Research and Development Administration,1976 ERDA Energy Research Abstracts United States. Energy Research and Development Administration. Technical Information Center,1976 **Solar Energy Update** ,1980 U.S. Government Research & Development Reports ,1970 Energy Research Abstracts ,1988 Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information **Government-wide Index to Federal Research & Development Reports** ,1967 Technical Abstract Bulletin ,1979 A Directory of Computer Software ,1977 **From Order To Chaos Ii, Essays: Critical, Chaotic And Otherwise** Leo P Kadanoff,1999-03-01 This book is a compilation of the review papers expositions and some of the technical works of Leo Kadanoff a theoretical physicist The objective is to put together a group of not too technical writing in which he discusses some issues in condensed matter physics hydrodynamics applied mathematics and national policy This expanded edition is divided into five sections The first section contains review papers on hydrodynamics condensed matter physics and field theory Next is a selection of papers on scaling and universality particularly as applied to phase changes A change of pace is provided by a series of papers on the critical analysis of simulation models of urban economic and social development The book concludes with a series of recent papers on complex patterns Each major section has an introduction designed to tie the work together and to provide perspective on the subject matter From Order to Chaos Leo P. Kadanoff,1993 World Scientific has made available a collection of Leo s reviews essays columns and commentaries which is a feast in several senses the strategy and tactics of science the science itself the history of several important developments in science and as a bonus a beautifully illustrated collection of essays on computational science The average reader may find this the final section of the book most interesting but for me the account of his discovery of scaling for which inexplicably he did not receive the Nobel prize is most intriguing Leo s combination of verve frankness and insight makes this a very good read P W Anderson Princeton Univ Publication of this volume will be very useful especially for young readers The papers disseminated over many journals acquire a new quality by being collected together Readers not only can see a result in its final form but also can trace its evolution J Fluid Mechanics 1994 The book is an invaluable source of information and inspiration on a variety of important problems in modern physics EMS 1999 **Physics Briefs** ,1994

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