



How do you make a scale model of a solar system?

Make a Solar System on a String (scale distance model) Tie colored beads onto a string to make a scale model of the distances between planets in the solar system. You can wear your model or even display it on a wall. Measure and cut a piece of string about 30 cm longer than the distance you calculated from the Sun to Neptune.

Why do we need a scale model of the Solar System?

Making and exploring a more accurate scale model Solar System (or at least part of one) can help students and the public better understand the vastness of space and the challenges of space exploration. These are classic activities/displays for use by all: in classrooms, planetariums, museums, libraries, etc.

What's a good video to scale a solar system?

To Scale: The Solar System by Wylie Overstreet and Alex Gorosh, is a 7 minute artistic video about creating a truly scale model Solar System. It's also downloadable for offline viewing. Also consider their video about the 2017 Eclipse scale model.

How do students learn about the Solar System?

Students research and learn about the structure of the solar system and our solar neighborhood. Then, they identify major solar system structures using a kitchen-sink model. If replicating the kitchen-sink model in the classroom, be sure to use a sink that has a flat bottom and a faucet that can swing away from the drain.

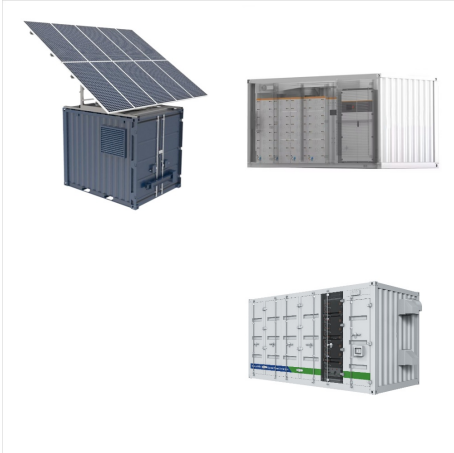
How do you evaluate learning about the Solar System?

Examine pre and post drawings to evaluate learning. Students should be able to identify the major parts of the solar system. Have students predict solar system scale using this activity. Have students make a scale model of the solar system using string and beads. Have students investigate planetary features using art.

How do you teach a solar system model?

Have students apply their knowledge to identify the solar system structures represented in the kitchen-sink model. Show students the annotated video of the kitchen-sink model to verify their assertions. Give teams more chart paper and have them draw their solar system models again, now that they have more knowledge.

# MODELS OF THE SOLAR SYSTEM WORKSHEET



Click the Solar System Model Worksheet coloring pages to view printable version or color it online (compatible with iPad and Android tablets). You might also be interested in coloring pages from Astronomy worksheets, Outer space categories. This Coloring page was posted on Monday, February 16, 2015 - 15:36 by Artsashina.



Solar System Cut & Paste Worksheet. This is a simple solar system cut and paste worksheet. Children color the sun and the planets then cut out the labels and arrange them accordingly. Older children can use the labels as a word bank and write the names in themselves.



In this activity, students use scale, proportion and/or ratios to develop a scale solar system calculator. Using spreadsheet software, students will determine the size of and/or distances between planets on a solar system model that fits on a playground. Materials. Example not-to-scale images of the solar system. Computer or mobile device

# MODELS OF THE SOLAR SYSTEM WORKSHEET



Discuss where you would need to place the Sun and each of the planets so the model is to scale. Make a model of the Solar Name: System???Page 4 \_\_\_\_ Directions: Use the data in Table 2 to place the eight model planets in your scale model of the solar system. TABLE 2: ORBITAL DISTANCE OF THE PLANETS OF THE SOLAR SYSTEM



initial planet model to an entire solar system model. Students modify planets and set up scale model of solar system as needed to be most accurate. Teacher Hint: Support students in thinking about the larger scale by working through various models. Teachers can research, for example, Solar System to Scale to a Football Field.



The earth is only a tiny part of an assembly orbiting the sun known as the solar system. The solar system comprises the sun and the assembly of bodies orbiting it, including moons, planets, asteroids, meteoroids, and comets. The word "solar" comes from "sol," a Latin word for sun. Our solar system has a central star the sun. It is a monster; in

# MODELS OF THE SOLAR SYSTEM WORKSHEET



2. The geocentric model of the solar system  
explanation 3. The heliocentric model of the solar  
system explanation 4. External links to explanatory  
videos 5. Models of the solar system quiz with an  
accompanying worksheet 6. Models of the solar  
system research worksheet "Models of the Solar  
System - Year 5" is fully editable so that it can be



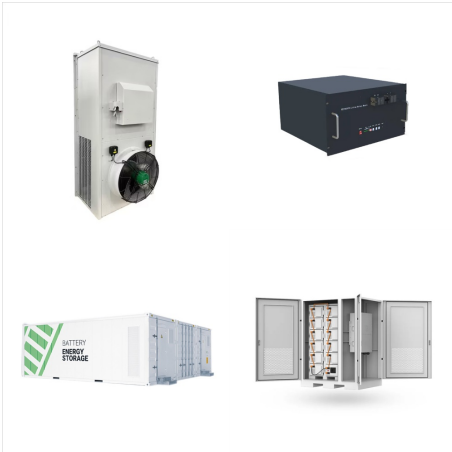
Models of the Solar System - Year 5 Year 5 science  
programme of study - Earth and space In this  
teaching resource, pupils will learn how ideas about  
the solar system have changed over time and look  
at the geocentric and heliocentric models.



mathematical model to explain the motion of the  
heavenly bodies. In his model, the sun was at the  
center of the solar system and the planet moved  
around the sun, including the earth. And the moon  
was considered to move around the earth. This  
changed the way of thinking about the universe and  
differed from the religious beliefs at that time.



# MODELS OF THE SOLAR SYSTEM WORKSHEET



Solar System Lab Problem: Create a model of the solar system to scale. Materials: Chalk Meter stick  
Calculator Lab Worksheet Question: Why is it necessary to use scale distances when dealing with large distances like those between the planets in the solar system? \_\_\_\_\_



Here are five ideas for a solar system project: Scale Model of the Solar System: Create a scale model of the solar system using various materials such as Styrofoam balls, marbles, or even fruits like oranges for the Sun and smaller ones for the planets. Use accurate measurements to represent the distances between planets and their relative sizes.

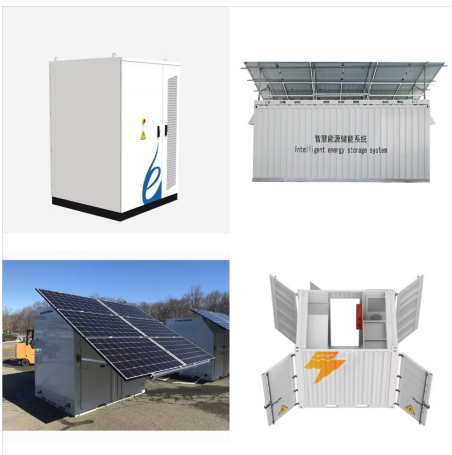


??? To Scale: The Solar System by Wylie Overstreet and Alex Gorosh, is a 7 minute artistic video about creating a truly scale model Solar System. It's also downloadable for offline viewing. Also consider their video about the 2017 Eclipse scale model. ??? Drone Solar System Model is a 9 minute video about an approximate scale model Solar

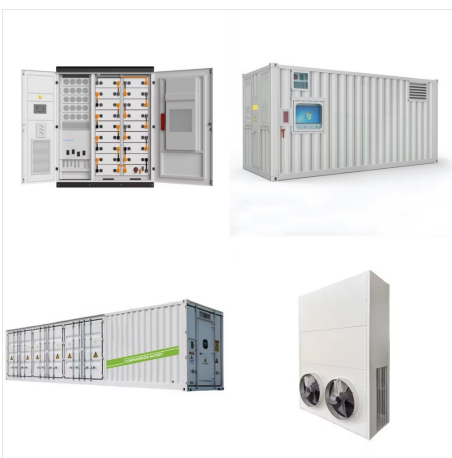
# MODELS OF THE SOLAR SYSTEM WORKSHEET



2. A Fold-up Model Solar System. With the Pocket Solar System lesson, students use a single strip of paper to make a simple model of the solar system to visualize how much space exists between the planets. They'll be practicing fractions as they fold their model solar system, too! Questions: After making the fold-up model and looking at the planets all stretched ???



Models of the Solar System - 4th Grade 4th Grade science programme of study - Earth and space In this teaching resource, pupils will learn how ideas about the solar system have changed over time and look at the geocentric and heliocentric models.



Solar system modeling worksheet ??? Download PDF. Classroom sink (see Management for details) OR kitchen-sink model of the solar system video ??? Download Video. Annotated kitchen-sink model of the solar system ??? ???

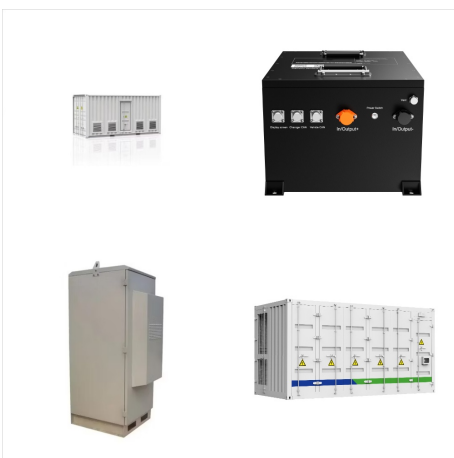
# MODELS OF THE SOLAR SYSTEM WORKSHEET



In this worksheet, students will explore the fact that, for many hundreds of years, scientists have looked at the stars to try to find our place in the solar system and to understand the movement of the stars, but how has our ideas about the solar system changed over the years?



Solar System Scale Model. Deborah Scherrer, Stanford Solar Center . Target Audiences: Public science events Youth groups Science museums, planetaria our galaxy, and the universe (as on the attached worksheets). Stanford Solar Center Scale Model 4 \*\* Scale Model Worksheet \*\* 1. The instructor will show you 3 model Earths to choose from.



Geocentric vs. Heliocentric Solar System Worksheet 1. The solar system refers to the Sun and all of the objects that orbit around it, but people did not Now let's look at both solar system models side-by-side. Astronomers use both models depending on which point of view makes their calculations easier. What similarities and

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Solar system worksheet. Included in these free printable solar system worksheets is what our family used to study the solar system. Of course we added some engaging books and hands on science projects too ??? you can see them in our solar system unit. There are 25 pages in this huge pack with a variety of levels to accommodate kids from Preschool ??? 8th grade.



Solar System Scope is a model of Solar System, Night sky and Outer Space in real time, with accurate positions of objects and lots of interesting facts. We hope you will have as much fun exploring the universe with our app as do we while making it :)



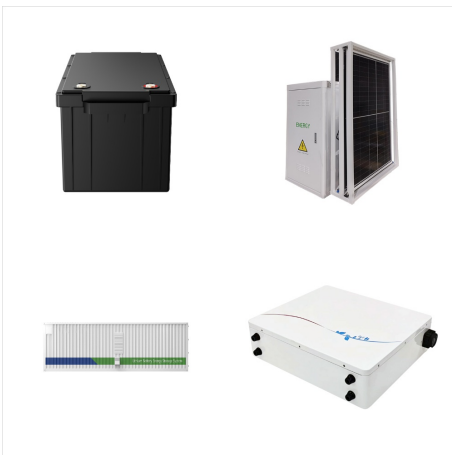
The first model will compare the distances between the planets and the Sun. The second model will compare the sizes of the planets. You probably won't be able to display either of these models, but you will learn a lot about the real dimensions of space. Problem. How can we make a solar system scale model? We want our model to reflect the



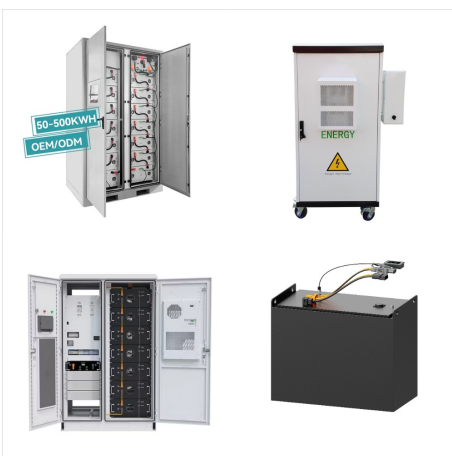
# MODELS OF THE SOLAR SYSTEM WORKSHEET



2 Introduction Our solar system is the Sun and everything that travels around it. Traveling around the Sun are eight official planets, at least five dwarf planets, nearly 200 moons (or natural satellites of the planets), and a large number of comets and asteroids. Supplies ??? Tape measure ??? Rolls of toilet paper



Designed for middle school learners, The Solar System to Scale asks students to analyze data tables to compare and contrast properties of planets and discover correlations in data. At the end of this two-page worksheet, students will draw a scale ???

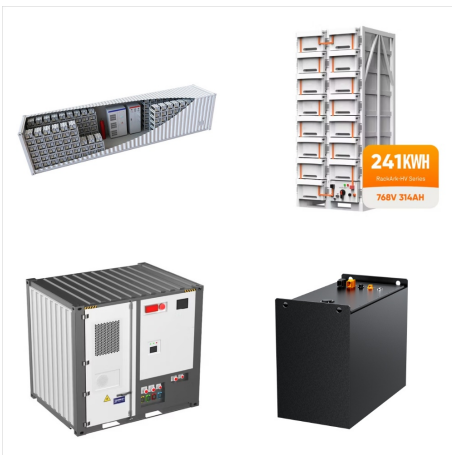


Students create a scaled-down model of the solar system by calculating the planets' diameters and distances from the sun??? Subjects: Science. Solar System. Download. Enrich your study of the solar system with this worksheet about asteroids and meteoroids. Students will complete??? Subjects: Science. Space and Astronomy. Solar System.

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Free Printable Solar System Worksheets. Teaching kids about the solar system plays a vital role in improving their academics. Parents and teachers can introduce them to STEM activities for kids. These activities allow students to learn the fundamentals of Science, Technology, Engineering and Mathematics effectively.



Models of the Solar System - 4th Grade 4th Grade science programme of study - Earth and space In this teaching resource, pupils will learn how ideas about the solar system have changed over time and look at the geocentric and heliocentric models.

# MODELS OF THE SOLAR SYSTEM WORKSHEET



Help your KS2 students find out all this and more with our Solar System Classroom Resources. Recently Viewed and Downloaded ??? Recently Viewed Labelling the Planets of the Solar System Differentiated Worksheets. 4.9 (87 reviews) Science: Earth and Space Year 5 Unit Pack The Solar System Augmented Reality (AR) 3D Model. 5.0 (10 reviews)



Models of the solar system quiz with an accompanying worksheet; Models of the solar system research worksheet "Models of the Solar System - Year 5" is fully editable so that it can be adapted to suit the needs of each class taught.



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