

Analysis and Conclusions

1. In general, how is the apparent size of an object affected by its distance from an observer? Does an object appear larger when the observer is closer or farther away from it?

2. From your graph, in which season is the sun's apparent diameter largest? Will Earth be closer to or farther from the sun at that time?
sun's apparent diameter largest is in winter it will be closer.

3. In which season is the sun's apparent diameter smallest? Will Earth be closer to or farther from the sun at that time?
sun's apparent smallest is in the summer it will be further

4. Based upon your answers to questions 1-3, explain how you know, that distance from the sun is not a cause of seasons.

5. Aphelion is when the earth is FURTHEST from the sun in its orbit. From your graph, determine between which dates Earth is at aphelion?
The dates are June 30th and July 20th

6. Perihelion is when the earth is CLOSEST to the sun in its orbit. From your graph, determine between which dates Earth is at perihelion?
December 30th and January 20th

7. Using the values in Data Table I for the maximum and minimum apparent diameters, calculate the average apparent diameter of the sun. Show your work. Remember that 60 seconds is equivalent to 1 minute.

Recall:

$$\text{Average} = \frac{\text{max} + \text{min}}{2}$$

8. Use the formula below to calculate the percent variation in the apparent size of the sun throughout the year. Based on your answer, what is the percent variation in Earth's distance from the sun?

$$\% \text{ variation} = \frac{\text{Average value} - \text{minimum}}{\text{Average value}}$$

Apparent Size Of The Sun Lab Answers

**Smithsonian Institution, National
Academy of Engineering, National
Science Resources Center of the
National Academy of
Sciences, Institute of Medicine**

Apparent Size Of The Sun Lab Answers:

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

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