

Questions About Tracking The Sun

A. Put the dome outside in an area that there will be no shadows on it during the day and it won't be disturbed. Use the compass to establish north. When you are done, don't erase the marks if you are going to put the dome out a month later.

1. What pattern do you see with the marks on the dome for one day?

2. What does the pattern mean?

3. What conclusions can you come up with that helps you understand what is happening during the day?

B. Put out the dome one month later. Last month's marks should still be on there.

1. What pattern do you see with the marks on the dome for one day?

2. Did the pattern stay the same as the first month?

3. Explain why the second marks are in the position they are in.

4. How does help you understand more about the tilt of the earth?

C. Put out the dome one month later. The past two months' marks should still be on there.

1. Describe what you discovered.

2. How does this help you with understanding the tilt of the earth?

D. Put out the dome one month later. The past three months' marks should still be on there.

1. Describe what you discovered.

2. How does this help you with understanding the tilt of the earth?

3. Describe the pattern of the four months.

4. What do you think will happen if you start tracking the sun from January to April?

E. Begin tracking the sun from January through April each month. See if you are right.