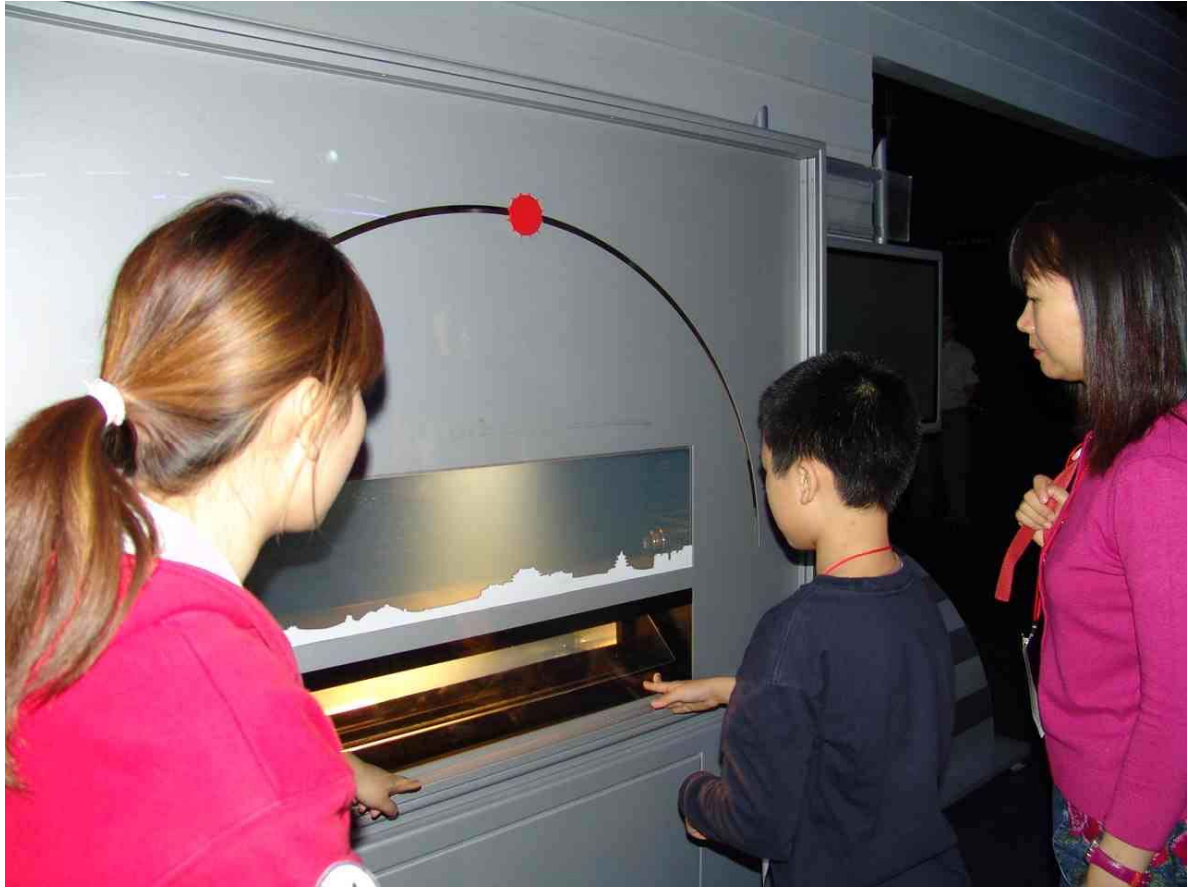


北京索尼探夢「青空と夕日の実験器」



2004. 12

Blue Sky and the Setting Sun

Lead

Why is the sky blue? Why is the sun red when its sets? Find out here!

How to play

- First, stand in front of the exhibit and look at the lamp. This lamp represents the sun.
- Now press the 'A' button. This will move the sun to the right. The liquid in the aquarium represents the sky. Make sure to watch its color!
- Press the 'B' button if you want to stop the sun. Press it again for the sun to start moving.
- Next, look at the exhibit from the side, and then move the sun again. Can you see the change in the color of the sun?
- Is this a trick? If you think the lamp is changing its color, think again. Press the 'C' button and compare the lamp in the reflection with the lamp that's changing color (it's the same lamp!). Don't forget to pay attention to the color of the liquid around the lamp.

Explanation

The light coming from both the sun and the electric lamp is called white light. White light contains all the colors of the rainbow. When white light passes through the liquid in the aquarium, the colors blue or purple scatter quickly, but red light stays the longest. This is why the sky looks blue in the daytime, and the sun looks red at sunset.