

Light and Shadow

Learning Objective:

To explore the Sun as a light source and identify the difference between night and day.

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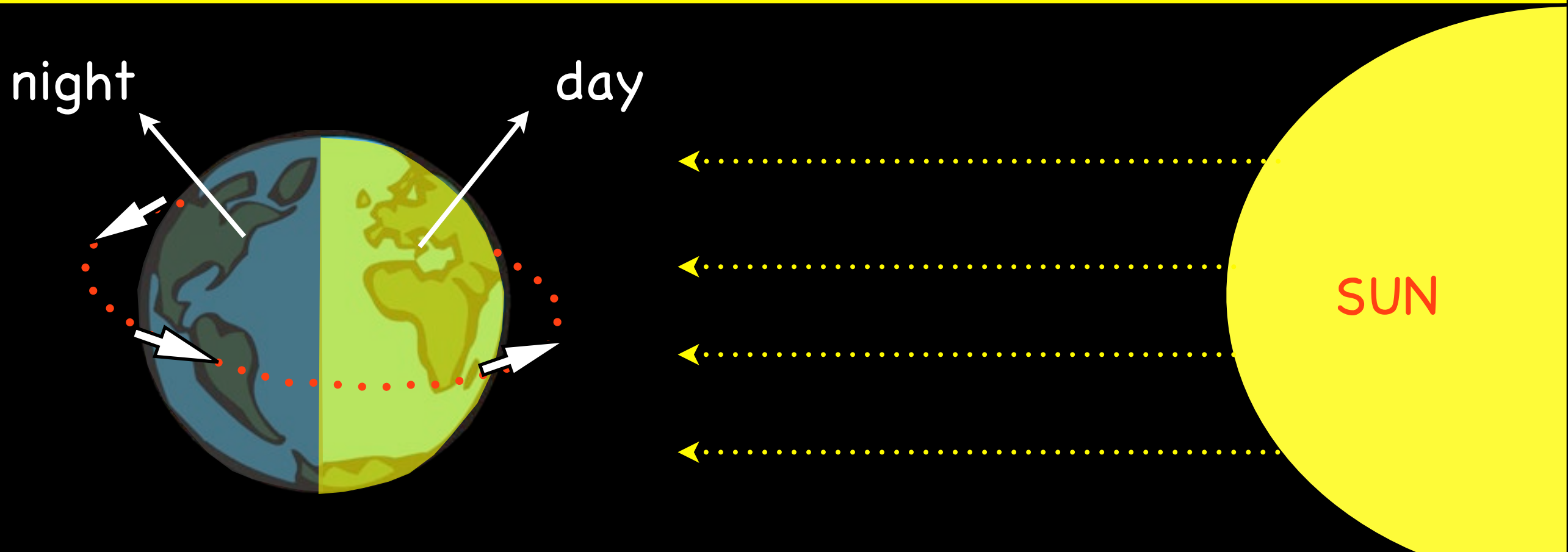
What is the
difference
between night
and day?

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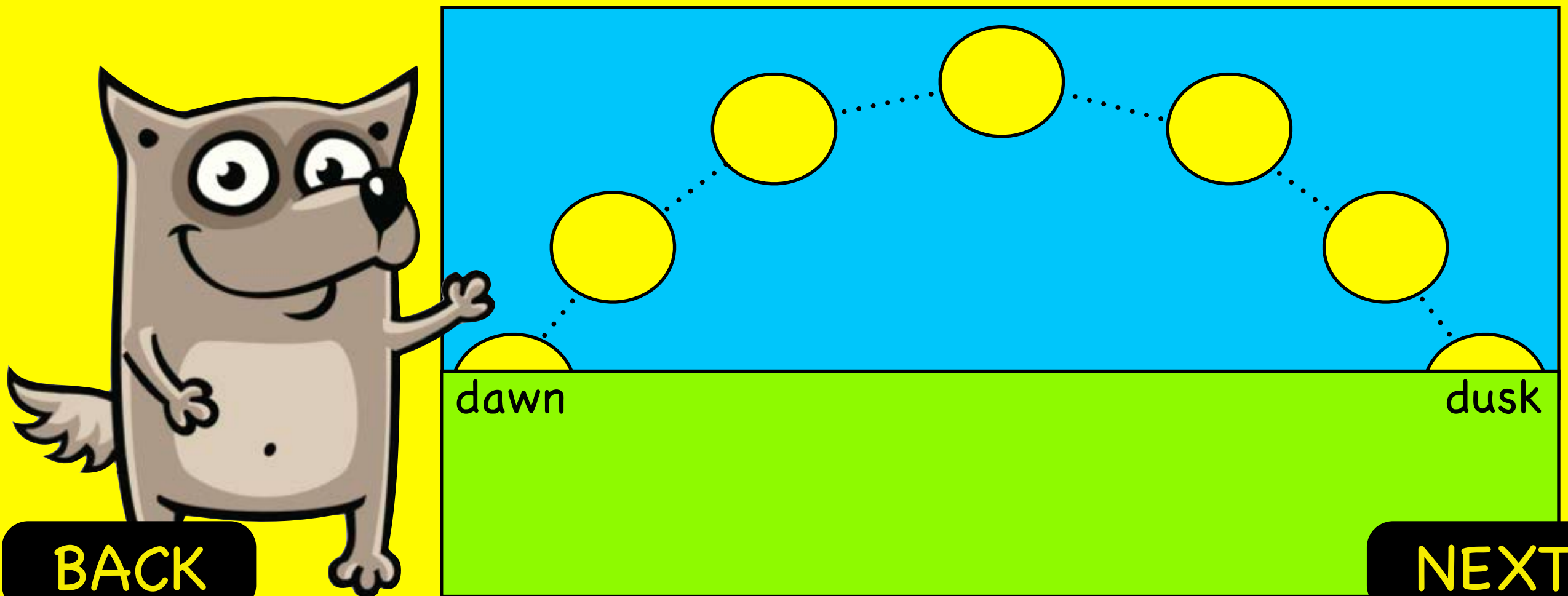
The difference between night and day is all to do with the Sun. The Sun is the most powerful light source. The Earth rotates on its axis once every day. It takes 24 hours to spin all the way round. The side of Earth facing the Sun is in daytime. The side facing away from the Sun is in night-time. As the Earth turns, different parts come into the Sun's light for day while the opposite part becomes dark for night.



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When the Sun rises in the morning, it starts getting light. This time of day is called **dawn**. During the day, it looks as though the Sun is moving across the sky. This is because the Earth is turning. Eventually, the Sun will start setting, making the light disappear. This time of day is called **dusk**. Once the Sun has set completely, it becomes night-time.



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Look at this picture. Is it day or night?
How do you know?

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We know this is daytime because we can see the Sun in the sky which gives us light.

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What about this picture? Is it night or day?



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Sometimes clouds can be very thick which makes the daytime gloomy but there is always enough light to see during the day. It is only at night when the Sun has set that we get total darkness.



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What about this picture? Is it night or day? How do you know?



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This picture shows night. The sky is completely dark and the only light comes from artificial lights. If these lights were turned off, it would be pitch black.

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**Great work
everyone!**

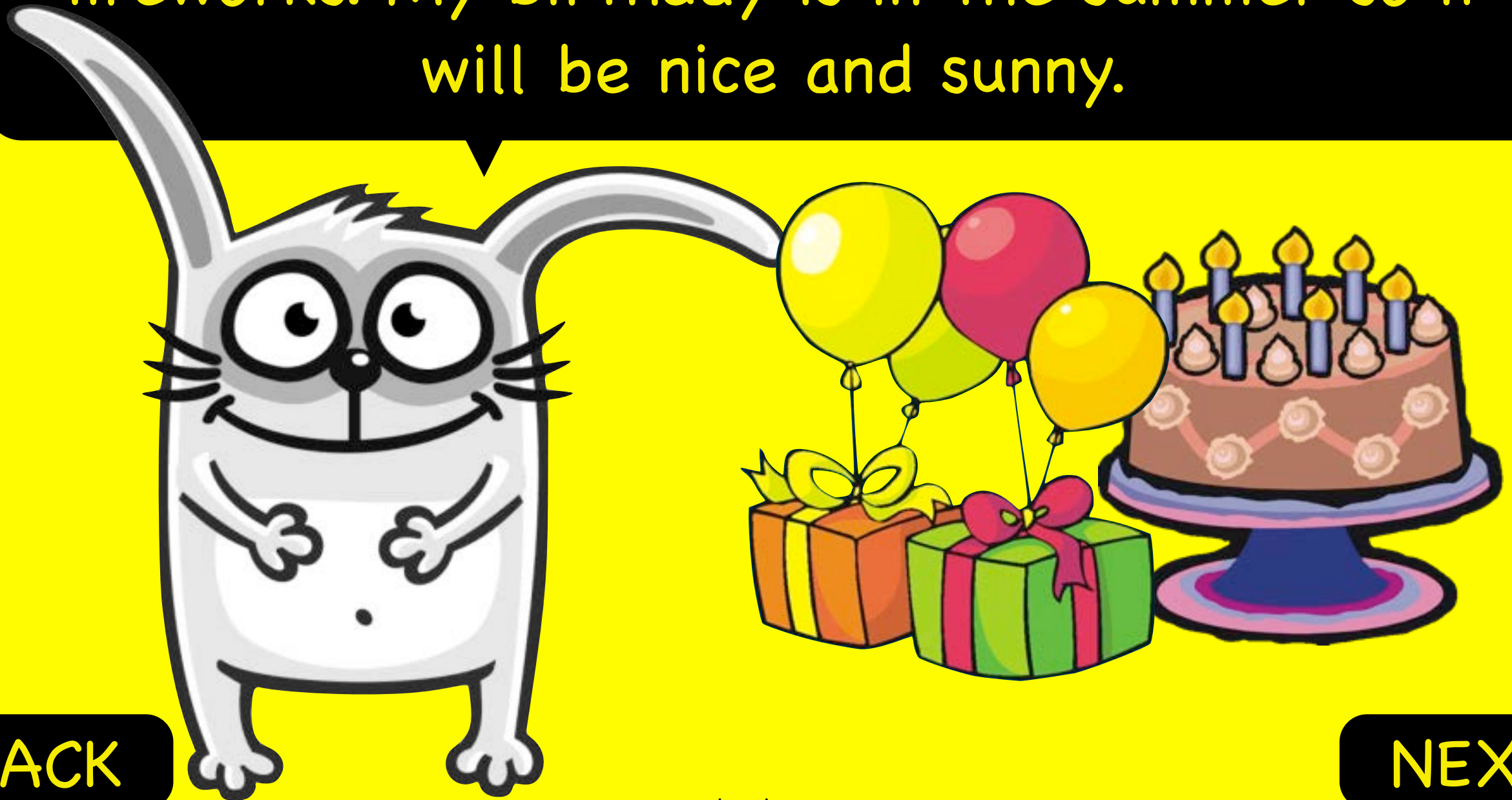
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Plenary:

Hello! My name Molly and I can't wait for my birthday party! We are going to have a picnic outside and then we are going to have fireworks. My birthday is in the summer so it will be nice and sunny.



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Oh no! We can't see the fireworks very well at all!
Why can't we see them?!

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