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Because butterflies have beautifully colored wings, people tried to get the substance that makes these brilliant colors to use as paint. However, they failed every time.

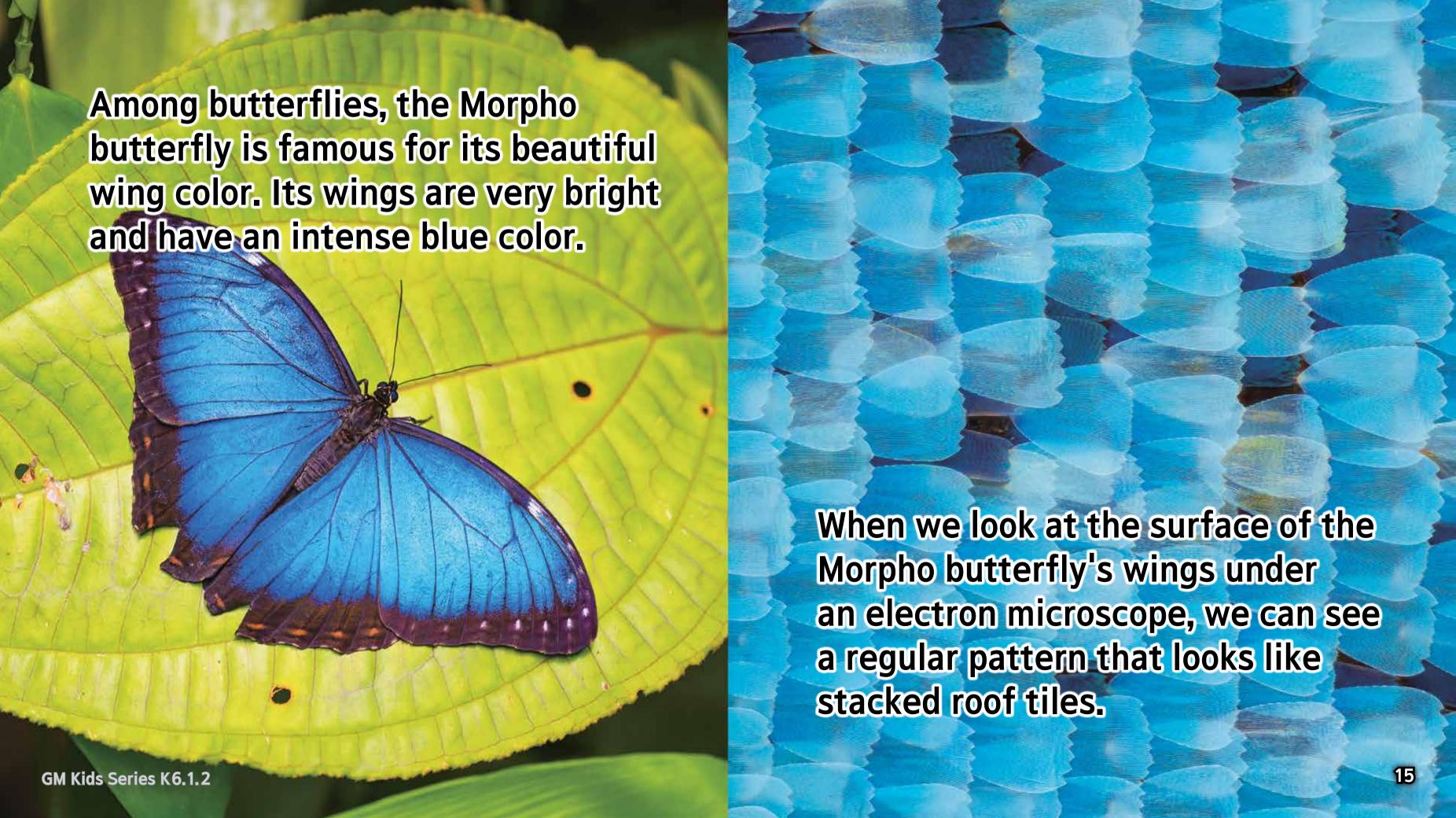














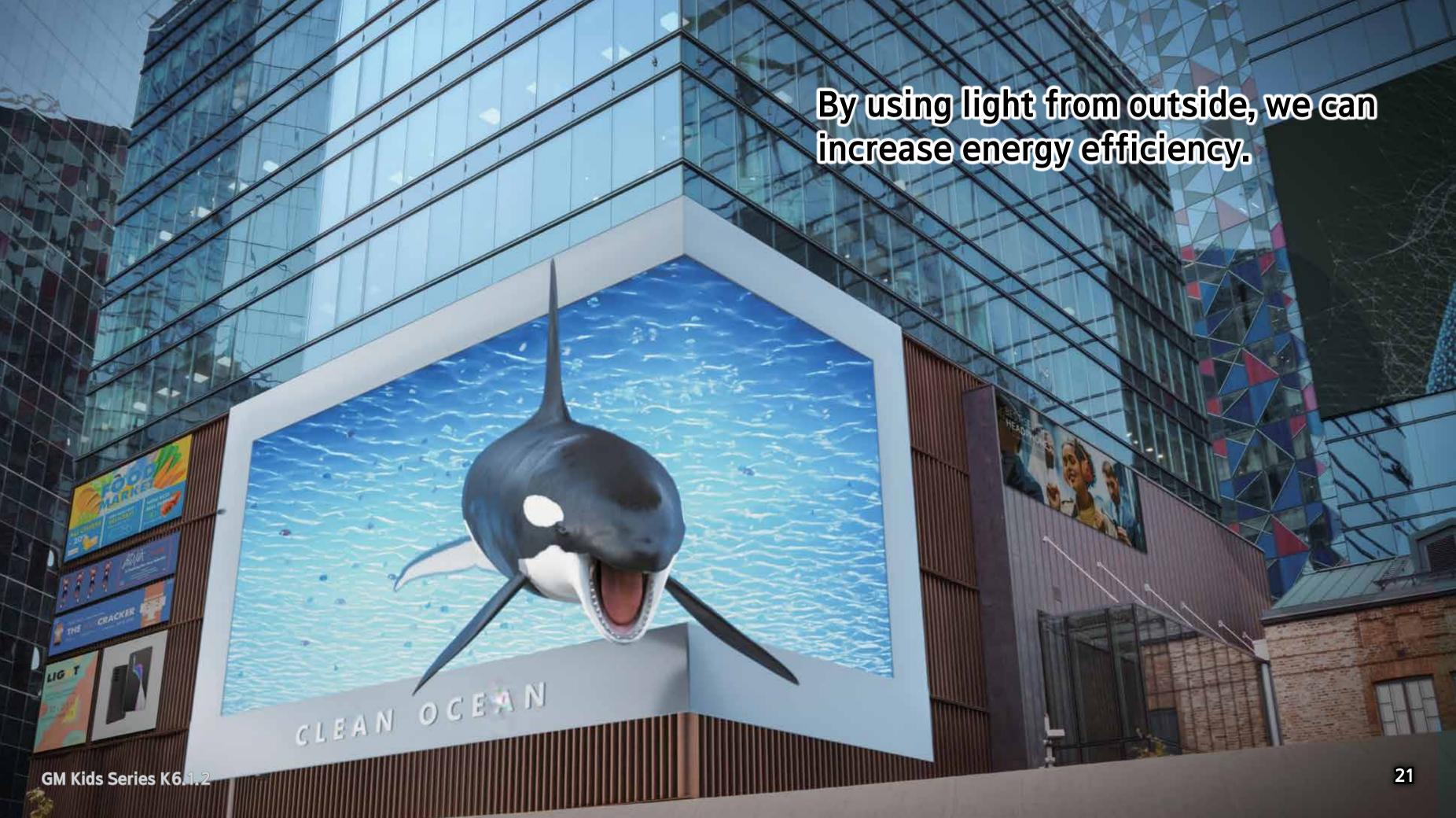


These displays reflect external light to create vivid colors on the screen.

This involves making reflective

displays that use natural light.

So, where can structural colors be used? By using the principles of structural color, we can create brighter and clearer TVs.









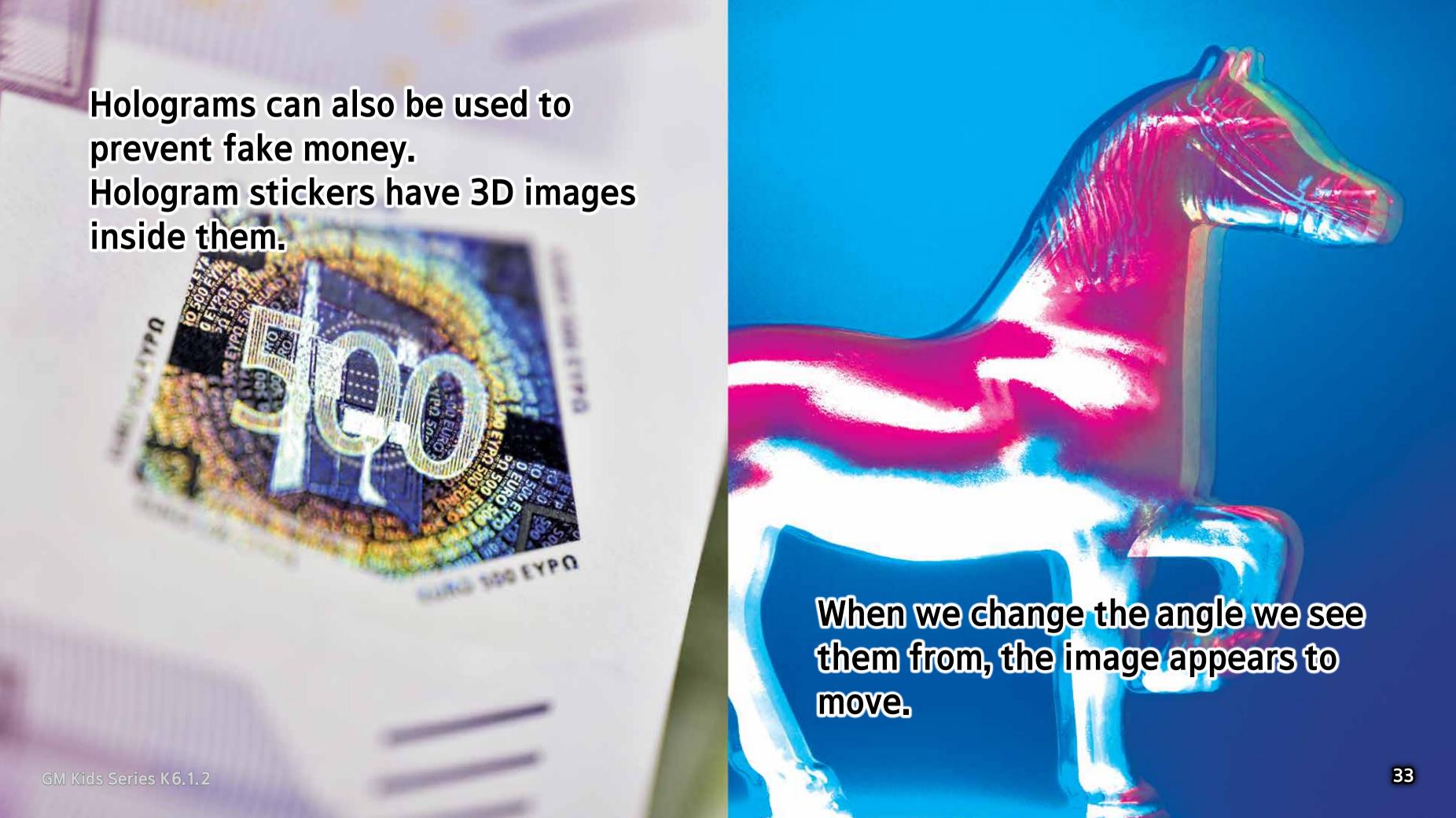
This color-shifting ink was inspired by the wings of the Morpho butterfly.

The link has special materials that bend light in different ways. When light hits the link, it reflects off the surface and the materials inside. These reflections mix together and make the colors change when we look at them from different angles.

The butterfly's wings have layers of tiny protein structures at a nano level. Light hits these layered structures and reflects off them. The reflected light waves then meet and create various colors.



For banknotes with this technology, bringing a smartphone or magnet close will change the arrangement of tiny particles, causing the color to change. If the color does not change, the banknote is fake.



Holograms can be made in two ways, analog and digital, but they both work the same. To make a hologram, we use two laser beams.



