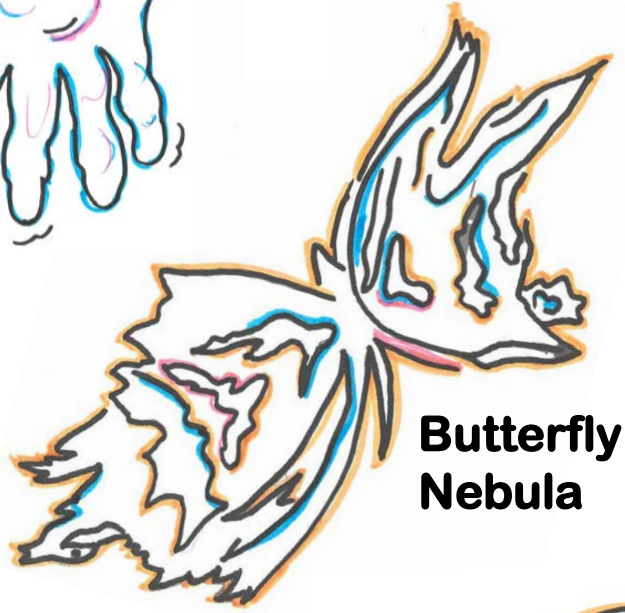


Saturn Nebula



Butterfly Nebula



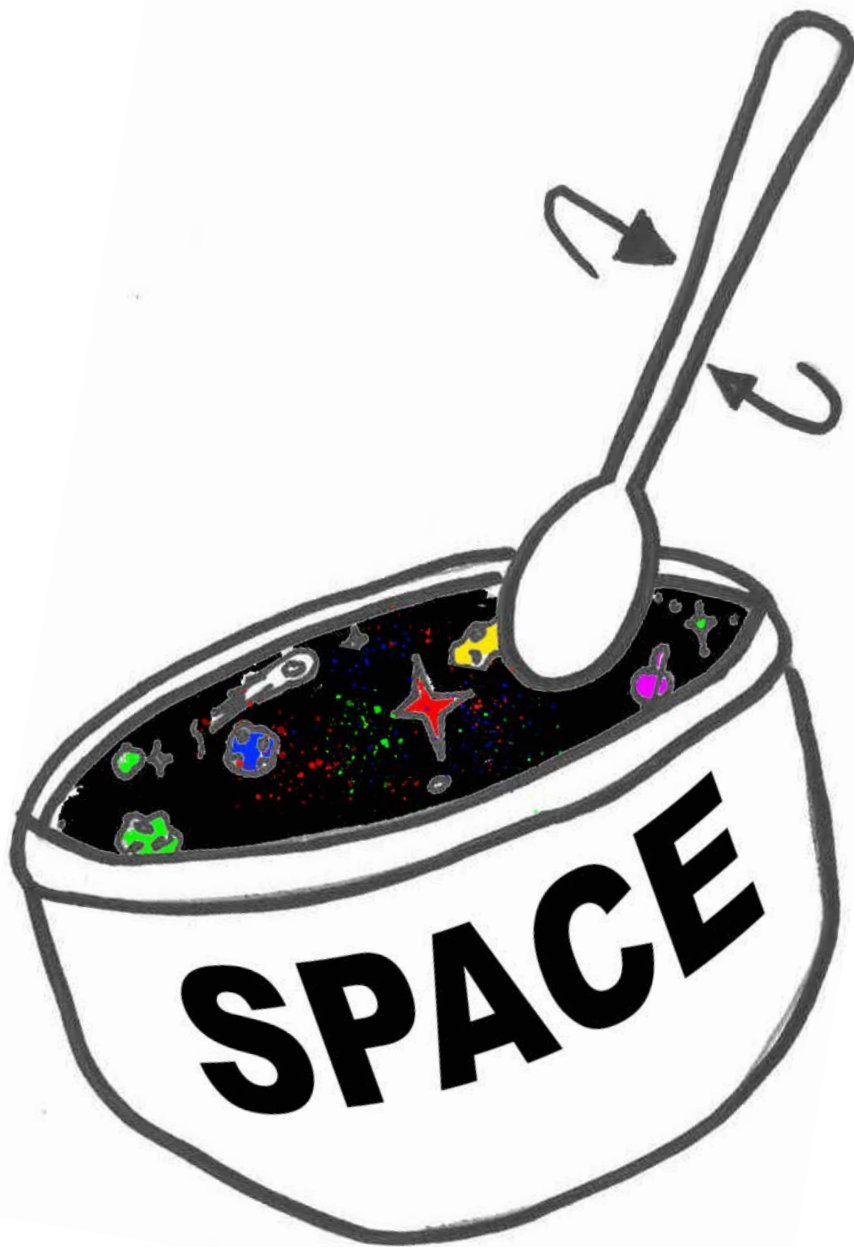
**Cat's
Eye
Nebula**



**Hourglass
Nebula**



**Sometimes nebulae are named
after objects they resemble.
What shapes do you see?**



A nebula is nature's way of mixing up materials in the space. Different colors represent different elements like hydrogen, oxygen, and carbon.

RED

Hydrogen

YELLOW

Hydrogen mixed
with Oxygen

GREEN

Oxygen

BLUE

Sulfur

BLUE

Helium

BLUE

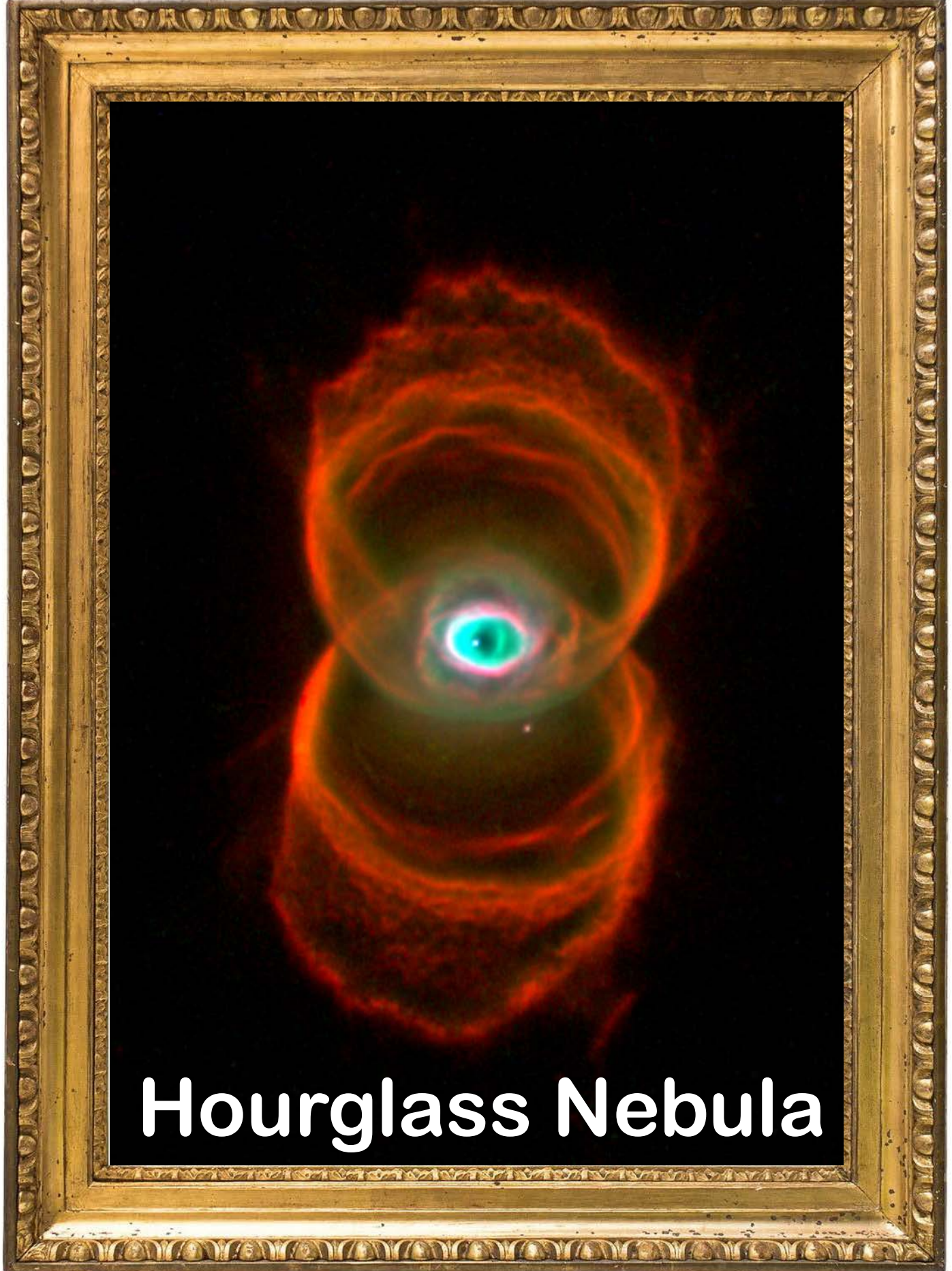
Carbon

You wouldn't be here without nebulae. As a star dies, expanding and exploding forming a nebula, it spreads elements across space. These elements make up other stars, planets, and you!

Scientists use ground and space telescopes to capture the nebula images in this activity. The rainbow of colors in these images are used to represent the mix of element of a nebula.



Helix Nebula



Hourglass Nebula

A photograph of the Bubble Nebula, a large, glowing blue and cyan spherical shell of ionized gas, set within an ornate, multi-layered gold frame. The nebula's surface is textured with wisps and filaments of gas. Several bright, multi-colored stars (purple, blue, and orange) are scattered throughout the scene, some appearing to be on the inner surface of the nebula's shell. The background is a deep, dark space filled with faint, distant stars.

Bubble Nebula

A photograph of the nebula NGC 7027, also known as the 'Red Heart' nebula, presented within an ornate, gold-colored frame. The nebula itself is a complex of glowing gases, with a central region of bright yellow and white light, surrounded by a thick, diffuse layer of red and purple. The overall shape is somewhat heart-like or butterfly-like. The background is black, with a few small, distant stars visible. The gold frame has a decorative, repeating pattern of small, rounded motifs along its inner and outer edges.

Nebula NGC 7027