Jiggly Jupiter

Follow these recipes for making delicious planet models!

Jiggly Jupiter

1 pitted cherry half
5 cinnamon candies
1 (2-1/4 ounce) strawberry Go-GURT package or other yogurt
OR
1 (5.5 to 6 diameter) strawberry-flavored gelatin jiggler
Strawberry syrup
Whipped cream

• Paint a circle with the yogurt or trim the gelatin jiggler into a circle and place it on a plate. The circle should be about six inches across. This is Jupiter’s liquid metallic hydrogen layer. Jupiter is made mostly of this strange form of hydrogen!
• Press the cherry half into the center of the gelatin and fill it with the cinnamon candies. This is Jupiter’s hard core, which is five times as dense as Earth’s.
• Around the gelatin circle, paint a thick circle with the syrup to represent another form of hydrogen found inside Jupiter, molecular hydrogen.
• Near the rim of the plate, add whipped cream as the outmost layer: the atmosphere.
• Smooth the edges of the layers together a bit — inside Jupiter, you can’t tell where one layer ends and the other begins!

Home Sweet Cherry

1 pitted cherry half
1 cinnamon candies
Chocolate syrup
Whipped cream

• Fill the cherry’s cavity with a small amount of chocolate syrup.
• Place the cinnamon candy in the center of the cherry.
• Smear a thin layer of whipped cream around the skin of the cherry.
Compare the interiors of Jupiter and Earth.
In what ways are their interiors alike?

How were their interiors different?

Use your models to draw the interior layers of Jupiter and Earth on the next page. Draw lines from the labels to the appropriate points in your drawings. Describe each layer with terms like

Fluid    Rocky    Hard
Dense    Thick    Thin    Gaseous
Jupiter

Layer Labels

Cloud tops

Gaseous hydrogen

Liquid hydrogen

Metallic hydrogen

Core (rock, metals, and hydrogen compounds)

Earth

Layer Labels

Atmosphere

Crust

Mantle

Core (molten rock surrounding solid rock center)