

Name _____

What Happens When an Object Falls into a Black Hole?

Short Answer

1. Explain what the event horizon of a black hole represents and why it's significant.
2. Describe the phenomenon of spaghettification and the forces responsible for it when an object falls into a black hole.
3. How does time dilation affect an object falling into a black hole and how it appears to external observers?
4. What challenges and mysteries are encountered beyond the event horizon of a black hole, particularly at the singularity?
5. Why is the concept of spaghettification both fascinating and intimidating in the study of black holes?

