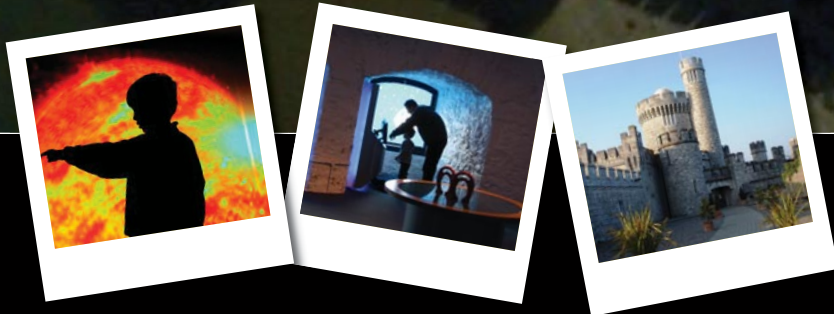


CIT Blackrock Castle Observatory



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CIT Blackrock Castle Observatory Castle Road, Blackrock, Cork, Ireland
Phone: +353 (0) 21 4357 917 E-mail: info@bco.ie Web: www.bco.ie

CIT Blackrock Castle Observatory Trail Questions

1. **History Boards:** Blackrock Castle has a long history. When was Blackrock Castle built? Why did the engineers of the time design the walls to be 2.2 m thick?

2. **Castle Tower:** A storey of a building is usually 3m tall. How many storeys do you think the castle tower has, and how tall do you think the tower is?

3. **Cosmos at the Castle:** Our exhibit is all about extremes of life and the search for other life forms in space.

(a) What did Edwin Hubble use to find out about other galaxies?

Fill in the gaps:

_ e _ e _ c _ p _

(b) How did astronauts get to the Moon?

(c) Which of the three space missions mentioned do you think is most important?

4. **The Long Room:** Walk through the Castle and think like an environmental engineer! How do the engineers heat the Castle?

5. **CIT Station:** Researchers from the Cork Institute of Technology are based in the Castle. Watch their videos!

(a) What type of telescope is Alan trying to build?

(b) How big is the telescope on the main roof?

4. **The Forum:** The oldest part of the castle is the original tower. We call this part the Forum. You can send a message to space from here!

(b) Where did you send a message to?

(c) How long will your message take to get there?

5. **The Fireplace:** One of the oldest things in the Castle is the fireplace.

What date is carved into the fireplace?

What would engineers today use to move something heavy like this?

6. **The Comet Chaser** is an interactive cinema game. It was designed for us by software engineers. What did you use to stop the comet?

Did your group save the planet? Yes No

7. **The Courtyard:** Where would you put the cannons to protect the Castle? Why?

Mark it on the map.

8. **The Old Lodge:** Structural engineers helped architects rebuild the lodge and it is now a restaurant. What material has been used the most in the new part of the lodge?

9. **Castle Tower:** Can you find two things that were added to the Castle after it was originally built?