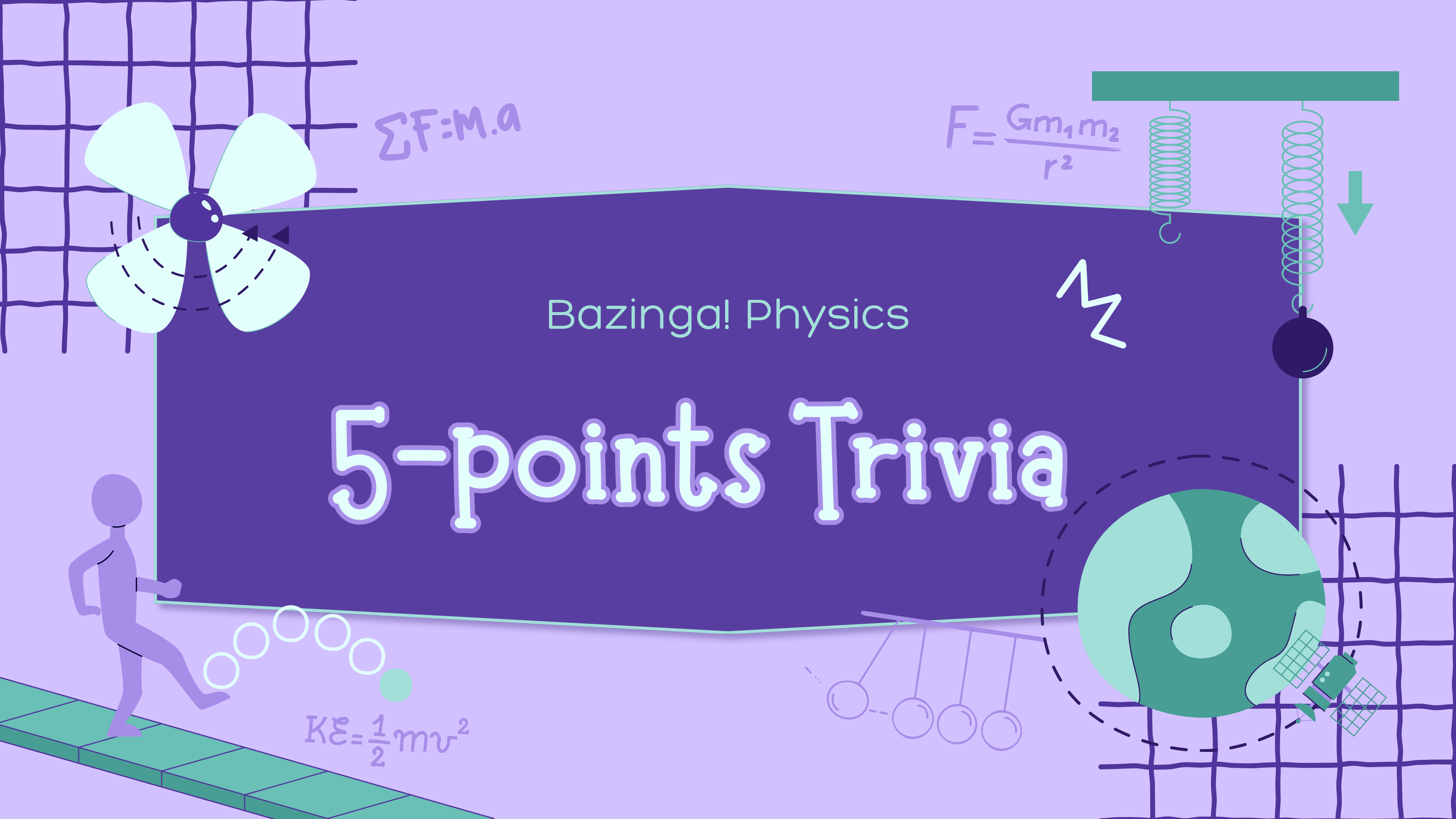

Bazinga! Physics
5-points Trivia

Laws (or principles?)

- **Three** trivia ladder-type questions, consisting of **5 clues each**, ranging from obscure to obvious. The five clues hint at **the same answer**. This is a written round.
- Initially, all the teams only get a **single clue**, and **20 seconds** to either write down a single answer or pass, to be checked by the volcon. If no answer is received, the **second clue is revealed** for **another 20 seconds**, and so on, until the team gets the correct answer.
- **Points** : If the answer is **correctly guessed** on the **first clue**, the team gets **50 points**. For every clue they **don't** answer on, **10 points are reduced**. Thus a team answering correctly on the **second clue** gets **40 points**, **third clue** gets **30**, and so on. If the time limit for all 5 clues passes, the team receives **no points.**
- **Constraint :** Each team only gets **one guess** per clue, and **three guesses total**. After the third guess, no guesses will be confirmed by the volcon.

Safety Slide




$\Sigma F = M.a$
$F = \frac{Gm_1m_2}{r^2}$
On your marks!
$KE = \frac{1}{2}mv^2$

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4. **(20)** It is the electromagnetic analogue of a sonic boom.
5. **(10)** It is the blue glow in the water of a nuclear reactor pool.

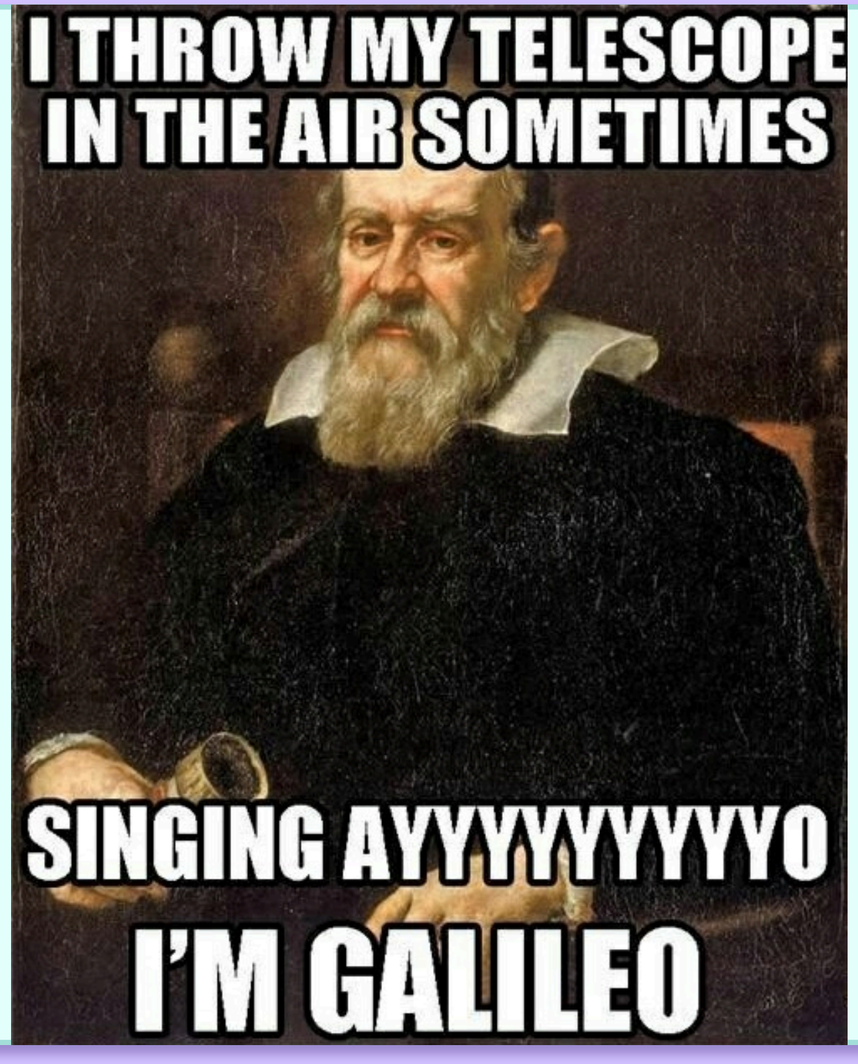
Safety Slide



Answer!

Cherenkov Radiation

Safety Slide



Question 2

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5. **(10)** It was proposed by a Scottish physicist famous for his equations of electromagnetism, and the agent in the story is a tiny being, named by Kelvin, who sorts fast molecules from slow ones.

Safety Slide



Answer!

Maxwell's Demon

Safety Slide



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5. **(10)** The oddly harmonious sound produced as a result sounds a lot like singing, hence the name.

Esnupi protecc answer :)



Answer!

Singing Sand /
Singing Dunes


$\Sigma F = M.a$
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And we are done!
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