

What is the Sky Canvas Project?

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About Sky Canvas Project:

- It is the **world's first artificial meteor shower project**.
- **The aim** of the project will be to **collect atmospheric data in the mesosphere**.
- Under this project, **meteor-replicating particles will be installed in a satellite 250 miles (400 km) up and then released over a designated area**.
- These **metallic particles** will be spheres with a **diameter of 0.4 inches (1 cm)** and a **mass of a few grams**.
- **The pea-sized balls** have a secret chemical formula that causes them to **light up from the friction of re-entry** at speeds of up to five miles (8km) a second.
- ALE says they will **travel more slowly and light up for longer than natural shooting stars** – up to ten seconds each.
- They **will be visible over a 125-mile (200 km) area**.
- The ingredients in the pellets can be altered to change the colour, which means that a multi-coloured flotilla of shooting stars could be created.

What is Mesosphere?

- The mesosphere is a **layer of Earth's atmosphere**.
 - It is **directly above the stratosphere and below the thermosphere**.
 - It extends from about **50 to 85 km (31 to 53 miles) above our planet**.
 - **The transition between the mesosphere and the thermosphere** is called **mesopause**.
 - **Temperature decreases with height throughout the mesosphere**.
 - The **coldest temperatures in Earth's atmosphere**, about -90° C (-130° F), **are found near the top of this layer**.
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Q1) What is a Meteor?

A meteor is a space rock or meteoroid that enters earth's atmosphere. Meteor showers can be viewed from earth without the use of binoculars or a telescope. When meteor showers occur, they originate from one point in the sky. They happen when space debris enters the earth's atmosphere

Source: [Artificial meteor showers could soon be a reality: Report](#)

Source: <https://vajiramandravi.com/current-affairs/what-is-the-sky-canvas-project/>

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