## Cube sats

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Type of miniaturized satellite for space research

They are made up of multiples of 10×10×10 cm cubic units.

weignt-1.33kg per unit.

Payload is the mission equipment that is carried by the rock et or space craft like satellile, scientific instruments whe sats ride along at secondary payloads on larger missions

This anakes space more accessible to .
educational institutions and smaller organizations
Features:

Modular Derign: These could be 10,20,30 which are standard sizer used to describe show big a cube sat is

10 (10×10×10)cm &V (10×10×20)cm Letwo 10 culies starked

Standardization: All whe att follow a common size rule 80, They can easily fit into deployment systems like Poly-Pio Satellite proital Deployer (P-POD)
PPOD it a device that holds cute sate inside a rocket and paps them out into space when its time.

Therefore they are cost effective

Applications include:

- Scientific Research
- Educational Projects
  - Technology Demonstration

Notable missions include Mar CO (first calles at to operate keyond carth orbit, providing real time communication dight sail (A project demonstrating splar sail propulsion)

## Can Sats

They are the educational took that simulate real solvelite missions within the notune and space of a standard soda can (66 mm in diameter and up mm in diameter and up mm in diameter and

## Features:

compart size: They find within the size of a solar com making it ideal for classroom projects. Educational forus! I soulder students with hands on experience in designing building and testing satellite systems.

can sate are sent up into the sky using small rockets or balloons. They go a few 100 m largh then come will down wing a parallule melite performing their mission (whe colluting data).

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Applications include STEM Education
Everopean space Agency (ESA) hosts can Sat competitions,
en cowaging innovation and teamwork among students

ĺ	Culie sat	Can Sat
Size	10×10×10 cm per unid	standard seda can dimensions
Allitude	dow Earth Orbid	A few 100 melses
Dwertion	Months to years.	nimter
lost	Tens to hundreds of 1000's as dellars	Relatively Inv
Purpose	Scientific, commercial, educational	psimarily educational
complex	High	mo derate