

## THE PRESENT PERFECT PROGRESSIVE

	Present perfect	Present perfect progressive
Structure	Have or Has plus (+) a past participle	Have or Has plus (+) BEEN plus (+) ING (Gerund)
How it's used	It shows a finished action in the past but does not say when.	It shows an action that started in the past DOES continue to the present and DOES continue into the future
The Difference	Action	Action Present

Instructions:

Print off this sheet

Read through the text below and identify all of the present perfect progressive and present perfect verbs. If you can remember from the videos that the present perfect progressive tense describes two actions in the past that are related.

Read the test below and list any present perfect progressive or present perfect verbs you can find ( have + been + gerund (ing)) or (have + past participle)

## Text:

'Incident' delays launch of James Webb Space Telescope

The launch of the James Webb Space Telescope has been put back by at least four days to allow for more checks.

It was to have been sent into orbit on 18 December and will now go up no earlier than the 22nd of the month.

A US space agency statement said an "incident" had occurred during launch preparations that induced a sudden vibration in the observatory.

A firm date for lift-off, on an Ariane rocket, would be confirmed following the investigation, Nasa added.

JWST is the \$10bn (£7.5bn; €9bn) successor to the veteran Hubble telescope. It's been designed to look deeper into the Universe than its predecessor and, as a consequence, look further back in time - more than 13.5 billion years ago. The aim is to see the first stars to light up the cosmos.

Scientists have been expecting to use its more advanced capabilities to study the atmospheres of distant planets in the hope that signs of life might be detected.

Webb is currently at the European Kourou spaceport in French Guiana.

Engineers there were in the process of attaching the telescope to its launch adapter - the large ring that will hold it in place atop its rocket - when a securing clamp unexpectedly popped open.

The concern is the event will have sent a sharp mechanical shock through the telescope.

The US space agency statement read: "A Nasa-led anomaly review board was immediately convened to investigate and instituted additional testing to determine with certainty the incident did not damage any components. Nasa and its mission partners will provide an update when the testing is completed at the end of this week."

Dr Thomas Zurbuchen, the director of science at Nasa, said sensors that would normally be put on the telescope during transport had been taken off.

"Just for sheer caution what we have done... [is go back] to a small number of subsystems and just do the functional tests to make sure that nothing happened as this energy went into the [telescope]," he told reporters.

"When you work on a \$10bn telescope, conservatism is the order of the day."

The telescope is considered robust. It has been built to survive the intense shaking and noise when its Ariane rocket climbs away from the launch pad.

Part of the development testing for Webb even involved putting it on a table and vibrating it at high frequency.

Engineers have a control room next door to the cleanroom where Webb is being held in Kourou. All the observatory's systems are linked into the monitoring computers inside this room. The functional checks on sub-systems are therefore reasonably straightforward to undertake.

Webb was well advanced in its preparations in Kourou. It has even been ahead of schedule. If the current investigation finds nothing awry, Engineers will move forward with fuelling the telescope, prior to lifting it on top of the Ariane vehicle about one week before roll-out to the launch pad. They have been expecting everything to go to plan.

JWST is a joint project between Nasa and the European and Canadian space agencies.

Ref: BBC.com

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