
James Webb Space Telescope Mission

the james webb space telescope: why space telescopes are ... - rationale: later this decade, the james webb space telescope (webb) will launch from earth to unlock some of the most thought provoking questions of our time. webb is the successor of the hubble space telescope (hubble), stands 3 stories high and spans the size of a tennis court. **james webb space telescope (jwst) - nasa** - james webb space telescope advanced mirror system demonstrator (amsd) collaboration among 3 government agencies 15kg/m², 1.2m diameter segments amsd phase 1: 8 mirror designs amsd phase 2: 3 mirrors developed medium authority glass (ule) low authority beryllium amsd phase 3/six sigma study be manuf. and process improvements ote optics review ... **james webb space telescope - amazingspace** - feature and explain how it is unique to the james webb space telescope. the presentation could be a skit, a story, a graphic organizer, a powerpoint show, or whatever format that will communicate the information you learned about the james webb space telescope. your teacher will direct you to work individually or in small groups. **james webb space telescope (jwst)** - the james webb space telescope (jwst) is a large space telescope planned to launch in 2021 at the earliest. - the jwst will be the successor to the hubble space telescope. - jwst instruments are designed to work primarily in the infrared range of the electromagnetic spectrum with some capability in the visible range. **the james webb space telescope - space foundation** - the james webb space telescope will help answer fundamental questions about our universe. the data collected will be used by thousands of astronomers, and images and information from the telescope will captivate the public and increase interest in stem education. **james webb space telescope - ball** - telescope will see, from visible to mid-infrared • because webb is an infrared telescope, the mirrors and actuators must function at temperatures as low as -400° f (33k) • webb is the largest mirror ever flown in space • webb is the first mirror to deploy in space. the efficient folding scheme allows the **james webb space telescope - northrop grumman** - james webb space telescope to fit inside the ariane 5 rocket faring, the large primary mirror must be folded in sections for launch, then unfolded precisely into place after launch, making it the first segmented optical system deployed in space. once in space, the sunshield will deploy to its full size and keep the telescope shadowed from the sun. **the james webb space telescope - university of colorado ...** - the james webb space telescope 489 table i (continued) acronym definition sm secondary mirror smc small magellanic cloud sn supernova sne supernovae sofi son of isaac (infrared spectrograph and imaging camera) ssm space support module stis space telescope imaging spectrograph stsci space telescope science institute swg science working group **james webb space telescope project jwst mission operations ...** - jwst mission operations concept document jwst-ops-002018 revision b check the jwst data base at: <https://ngin.jwstsa/> to verify that this is the correct version prior to use. cm foreword this document is a james webb space telescope (jwst) project configuration management (cm)-controlled document. **the james webb space telescope** - the james webb space telescope after many years the james webb space telescope is well on its way to becoming a worthy successor to the hubble space telescope. by jonathan p. gardner and heidi b. hammel artist's concept of the completed james webb space telescope. webb will be 100 times more powerful than the hst, and its **james webb space telescope (jwst) - nasa** - james webb space telescope (jwst) the first light machine what is first light? end of the dark ages: first light and reionization what are the first luminous objects? what are the first galaxies? how did black holes form and interact with their host galaxies? when did re-ionization of the inter-galactic medium occur? what caused the re-ionization? **james webb space telescope** - the james webb space telescope (jwst) is a 6.5-meter-aperture observatory optimized for infrared astronomy (0.6 - 28 μm). jwst is the first infrared space telescope to employ passive cooling to achieve its operating cryogenic temperature of 40 k. **james webb space telescope -i2 communications for ... - nasa** - the james webb space telescope (jwst) is a large aperture infrared space telescope with a 5-year mission, 10-year design goal. it is currently planned to be launched in 2013 from french guiana aboard an ariane 5 launch vehicle. jwst is designated to succeed the hubble space telescope (hst) and spitzer space

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