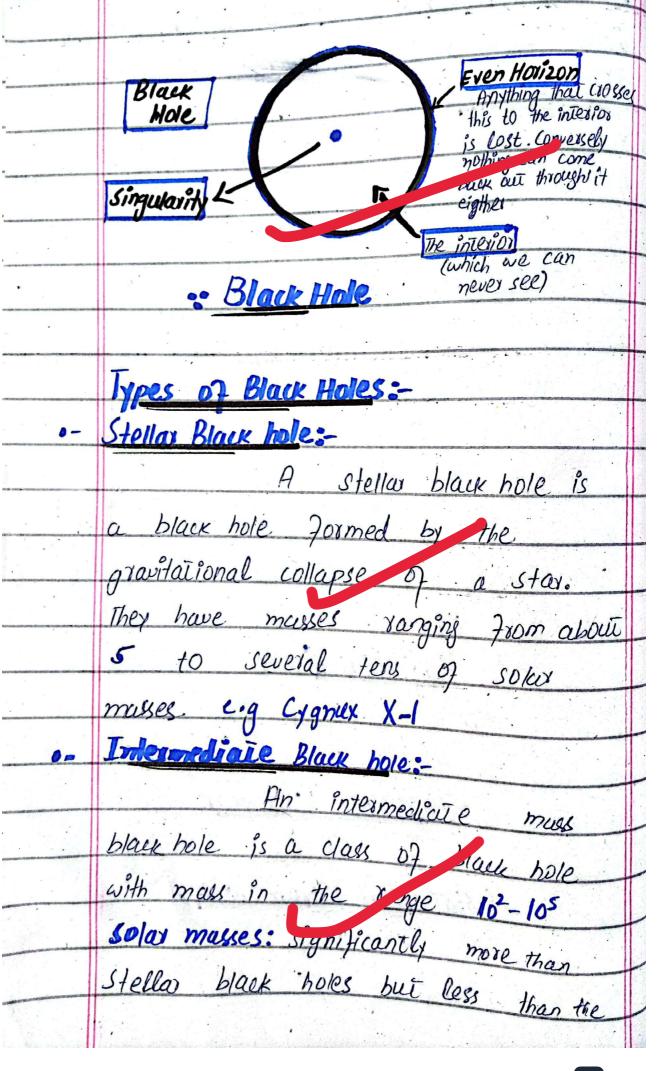
hole form and discovered. Black Hole: Black holes we some of the strangest and most fascinating Objects in space. They are extremely dense, with such strong a strational attraction that not even light can escape their grasp. The Milky way will contain over 100. million black holes, through detecting these quitonous beasts is very difficult. At the heart of the milky way lies a supermassive black hole <u>Sagitlavius</u> A. The colossal. Strudure is pout 4 million times the mass of the sun and lies approximately. 26,000 Pight years away from earth (Statement Juan NASA)



10-10° solar mass supermassive black holes. Supermasive Break hole: Supermassive black hole, a black hole more than one hundred thousand times the mass of the sun. Nearly every large galaxy has a supermassive black hole its centre. For example, the milky way galaxy has a supermassive black hole at its center, corresponding to the radio source Sagitlarius A*. Primordial Black holes-Scientists theorize that primadia black holes formed in the first second after the birth of the unierse. In that moment, pockets of not material may have been sense enough to form. black holes, potentially with mosses raging from 100,000 times 1855 than a paperally to 100,000 times more than the Sun's.

How do Black holes Journe Black holes are expected to Joan via two distinct channels. -> According to the first pathway, they are stellar corpor, so they form when massive stars die Stars whose birth makes are above roughly 8-10 times muss of our sun; when they exhaust all these Juel, their. hydrogen they explode and die leaving behind a very compact dense object, a black note. The resulting black se that is peft behind is rejerred to as a stellar mass black hole and its mass is of the cooder of a Jew times the mass of the sun Not all stars rave behind black holes, stars ofth Power birth mosses Peaue behind a neutron star or a white dwarf. Rnother way that black holes from Keep the description of a single heading brief and divide them into subheadings

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is from the direct collapse of gas, a process that is expected to result in more massive black holes with a mass ranging from 1000 times mass of the sun up to even 100,000 times 0) the sun. How black holes are discovered? Black holes don't emit or reflect light making them effectively to telescopes. Scientists primarily detect and study them based on how they affect their surroundings: Black holes can be surrounded by rings of gas and dust, called accretion disks, that emit light across many wavelengths, including X-Vays:

