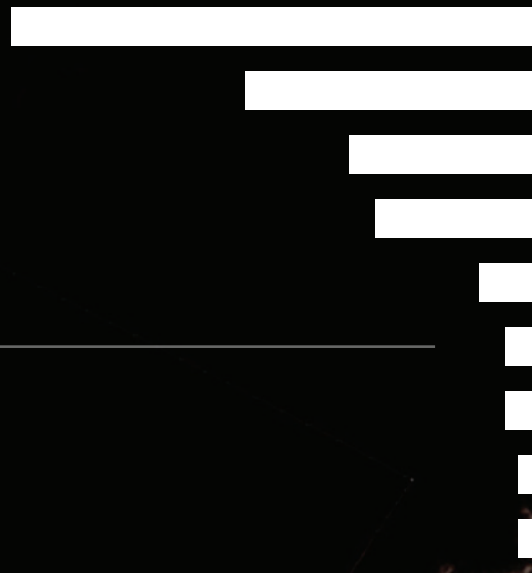


METEORITES

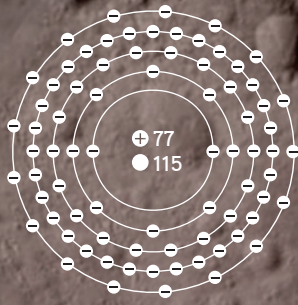
100% | 75% | 50% | 25% | 0% | ELEMENTS > 1% | PERCENTAGE OF ABUNDANCE | LOCATION ON THE PERIODIC TABLE



Element	Percentage
oxygen	40%
iron	22%
silicon	14%
magnesium	12%
sulfur	4%
hydrogen	2%
carbon	2%
nickel	1%
calcium	1%

IRIDIUM PROFILE

77
Ir
iridium
192.217



65 MILLION

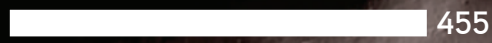
years ago a massive meteorite struck the Earth near the Yucatán Peninsula of Mexico, leaving an impact crater more than 100 miles wide and causing a mass extinction event.

Iridium, almost nonexistent in the Earth's crust but significantly more abundant in meteorites, was found in unusually high amounts in the sedimentary rock of the K-T boundary. This discovery helped scientists prove that an asteroid wiped out the dinosaurs.



IRIDIUM QUANTITIES
APPROXIMATE PARTS PER BILLION

IN THE K-T BOUNDARY:



IN THE EARTH'S CRUST:

0.3

ELEMENTS < 1%

aluminum	0.91
sodium	0.55
chromium	0.3
manganese	0.27
nitrogen	0.14
phosphorus	0.11

potassium	0.07
cobalt	0.059
titanium	0.054
chlorine	0.037
zinc	0.018
copper	0.011

fluorine	0.0087
vanadium	0.0061
germanium	0.0021
selenium	0.0013

strontium	8.7×10 ⁻⁴
gallium	7.6×10 ⁻⁴
zirconium	6.6×10 ⁻⁴
scandium	6.4×10 ⁻⁴
rubidium	3.2×10 ⁻⁴
barium	2.7×10 ⁻⁴
tellurium	2.1×10 ⁻⁴
yttrium	1.9×10 ⁻⁴
arsenic	1.8×10 ⁻⁴
lithium	1.7×10 ⁻⁴
boron	1.6×10 ⁻⁴
lead	1.4×10 ⁻⁴
tin	1.2×10 ⁻⁴
molybdenum	1.2×10 ⁻⁴
bromine	1.2×10 ⁻⁴

platinum	9.8×10 ⁻⁵
ruthenium	8.1×10 ⁻⁵
cerium	7.5×10 ⁻⁵
palladium	6.6×10 ⁻⁵
osmium	6.6×10 ⁻⁵

iridium	5.4×10⁻⁵
neodymium	5×10 ⁻⁵
cadmium	4.4×10 ⁻⁵
lanthanum	2.8×10 ⁻⁵
dysprosium	2.7×10 ⁻⁵
mercury	2.5×10 ⁻⁵
iodine	2.5×10 ⁻⁵
gadolinium	2.3×10 ⁻⁵
niobium	1.9×10 ⁻⁵
ytterbium	1.8×10 ⁻⁵
rhodium	1.8×10 ⁻⁵
erbium	1.8×10 ⁻⁵
samarium	1.7×10 ⁻⁵
hafnium	1.7×10 ⁻⁵
gold	1.7×10 ⁻⁵
silver	1.4×10 ⁻⁵
cesium	1.4×10 ⁻⁵
tungsten	1.2×10 ⁻⁵
antimony	1.2×10 ⁻⁵

praseodymium	9.8×10 ⁻⁶
thallium	7.8×10 ⁻⁶
bismuth	6.9×10 ⁻⁶
holmium	5.9×10 ⁻⁶
europium	5.9×10 ⁻⁶
rhenium	4.9×10 ⁻⁶
indium	4.4×10 ⁻⁶
thorium	3.9×10 ⁻⁶
terbium	3.9×10 ⁻⁶
thulium	2.9×10 ⁻⁶
lutetium	2.9×10 ⁻⁶
beryllium	2.9×10 ⁻⁶
tantalum	2×10 ⁻⁶

uranium	9.8×10 ⁻⁷
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ELEMENTS = 0% OR UNKNOWN

helium	neptunium	bohrium
neon	plutonium	hassium
argon	americium	meitnerium
krypton	curium	darmstadtium
technetium	berkelium	roentgenium
xenon	californium	copernicium
promethium	einsteinium	ununtrium
polonium	fermium	flerovium
astatine	mendelevium	ununpentium
radon	nobelium	livermorium
francium	lawrencium	ununseptium
radium	rutherfordium	ununoctium
actinium	dubnium	
protactinium	seaborgium	

