

CHEMISTRY

MODULE 2 – FOUNDATIONS IN CHEMISTRY

2.1 – ATOMS AND REACTIONS

Atomic structure and isotopes

- Describe the structure of an atom including the distribution of mass and charge.

	Protons	Electrons	Neutrons
Mass	1	1/2000th	1
Charge	+1	-1	0

- Mass is in nucleus(protons and neutrons) with electron cloud surrounding it.
- Describe the difference between mass (nucleon) number and atomic (proton) number
 - Mass number – the total number of protons and neutrons in the nucleus of an isotope
 - Atomic number – the total number of protons in the nucleus of an atom
- Explain what an isotope is.
 - Atoms of an element (same number of protons) with different numbers of neutrons and different masses.
- Define the term 'first ionisation energy'
 - The amount of energy needed to remove an electron from each atom in 1 mole of gaseous atoms of an element.

Relative masses

- State what is used as the standard measurement for relative masses
 - Carbon-12
- Define 'relative atomic mass' (A_r)
 - The weighted average mass of an atom, relative to 1/12th the mass of a carbon-12 atom.
 - THIS MEANS:
(The weighted average atomic mass of an element, relative to carbon 12, on a scale where carbon 12 is 12.)
- Define 'relative isotopic mass'
 - The mass of an isotope compared to 1/12th the mass of a carbon-12 atom.
 - THIS MEANS
(The mass of an isotope of an element relative to carbon 12 on a scale where carbon 12 is 12.)

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Victor M. Corman



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hey jude was the first beatles song to be recorded on eight track recording equipment the sessions took place at trident studios in central london midway through the recording of the group s self titled double album also known as the white album and led to an argument between mccartney and george harrison over the song s guitar part

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the beatles hey jude arranged string trio of violin viola and cello my arrangement differs to some of the other trio arrangements you may find both on this site and elsewhere i have not simply transcribed it from a piano arrangement i e given the tune to the 1st violin and given broken chords or sustaining notes to the other two

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hey jude is a song by the english rock band the beatles that was released as a non album single in august 1968 it was written by paul mccartney and credited to the lennon mccartney partnership

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on this day the beatles continued working on hey jude which was rehearsed the day before they recorded seventeen takes numbered takes 7 23 at the end of the session two tape reductions were created and a rough stereo mix was made so that george martin could work on the song s orchestral score which would be

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after two days of rehearsals and rough takes spent on hey jude the beatles moved from abbey road to trident studios to benefit from the eight track recording facilities and record the song in a proper way from the beatles monthly book september 1968 n 62 then on the wednesday we moved from emi to trident which

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after two days of rehearsals and rough takes at abbey road and a day of proper recording at trident studios on this day the beatles completed the recording of hey jude still at trident studios to benefit from its eight track recording facilities from 5 pm to 8 pm the beatles added overdubs onto take 1

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mar 15 2008 on 26 july 1968 played the song to lennon for the first time it wasn t until 1987 that mccartney came to discuss hey jude with julian lennon after a chance encounter in a new york hotel the recording notes for hey jude were bought at auction by julian lennon in 1996 for 25 000

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nov 2 2021 the beatles ballad was originally titled hey jules to more directly address julian but mccartney later changed the

song to hey jude to fit the sonic direction

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there was no session on friday july 26 as paul mccartney and john lennon finished writing hey jude as reported by the beatles monthly book september 1968 n 62 on friday july 26 john and paul spent most of the day at paul s house putting the final touches to their latest composition hey jude

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