

Your Cosmic Context
crossword puzzle answers

Chapter 1

ACROSS

- 5 experiment
- 7 science
- 8 animist
- 9 graph
- 10 theory
- 12 prediction
- 13 law

DOWN

- 1 uncertainty
- 2 Aristotle
- 3 mechanistic
- 4 units
- 6 peer review
- 11 omen

Chapter 2

ACROSS

- 1 angular
- 3 spectrum
- 6 proper
- 7 nebula
- 8 doppler shift
- 13 elliptical
- 14 telescope
- 15 planet
- 16 orion
- 17 Galileo
- 18 light year

DOWN

- 2 nanometer
- 3 speed of light
- 4 electromagnetic
- 5 astronomical unit
- 6 parallax

- 9 infrared
- 10 frequency
- 11 spectroscopy
- 12 wavelength

Chapter 3

ACROSS

- 2 thermal
- 6 Tully Fisher
- 8 Virgo
- 9 nucleus
- 11 kinetic
- 13 ladder
- 14 radar
- 15 temperature
- 16 blackbody
- 17 plasma
- 18 electron
- 20 molecule

DOWN

- 1 neutron
- 3 light curve
- 4 standard candle
- 5 cepheid
- 7 local group
- 10 proton
- 12 ion
- 17 photon
- 19 flux

Chapter 4

ACROSS

- 2 dark matter
- 6 focus
- 7 MACHO
- 9 disk
- 11 binding
- 14 ellipse
- 16 red dwarf
- 18 rotation curve
- 19 orbit

DOWN

- 1 halo
- 3 mass to light
- 4 escape velocity
- 5 x-rays
- 8 bulge
- 9 differential
- 10 MOND
- 12 spiral arm
- 13 merger
- 15 gravity
- 17 WIMP

Chapter 5

ACROSS

- 3 radiometric
- 6 Hubble law
- 8 void
- 10 helium
- 13 nuclear
- 16 lithium
- 17 isotopes
- 19 Olbers's paradox
- 20 galaxy survey

DOWN

- 1 redshift
- 2 CMB
- 3 recession
- 4 chemical
- 5 Hubble constant
- 7 atomic number
- 9 isotropic
- 11 kelvins
- 12 white dwarf
- 14 homogeneous
- 15 blackbody
- 18 wall

Chapter 6

ACROSS

5 equivalence
6 geodesic
11 SMBH
12 accretion
13 waves
14 redshift
17 acceleration
18 positive
19 Euclidean
20 free fall

DOWN

1 MACHO
2 Einstein
3 lensing
4 negative
7 Schwarzschild
8 curvature
9 quasar
10 event horizon
15 x-ray
16 inertia

Chapter 7

ACROSS

3 spacetime
7 event
9 static
10 supernova
12 Friedmann
16 recession
17 billion
18 horizon
19 observable

DOWN

1 expansion
2 peculiar
4 Einstein
5 scale factor
6 principle
8 vacuum
11 wavelength
13 dark energy

- 14 accelerate
- 15 worldline

Chapter 8

ACROSS

- 3 bound
- 5 blackbody
- 9 Wien law
- 10 absorption
- 13 temperature
- 14 orbital
- 15 line
- 16 free
- 18 radius
- 19 anisotropy
- 20 brighter

DOWN

- 1 quantized
- 2 polarized
- 4 upscatter
- 6 last scattering
- 7 opaque
- 8 transparent
- 11 scattering
- 12 field
- 17 glare

Chapter 9

ACROSS

- 1 helium
- 8 deuterium
- 9 nuclear
- 11 neutrino
- 12 watt
- 13 protostar
- 17 black hole
- 21 strong
- 22 red dwarf
- 24 iron
- 25 neutron star
- 26 mass

27 fusion
28 energy
29 supernova
30 gravity

DOWN

1 hydrostatic
2 luminosity
3 red giant
4 pp chain
5 electrical
6 WIMP
7 capture
10 power
14 solar constant
15 white dwarf
16 positron
17 baryonic
18 annihilation
19 conservation
20 baryons
23 beta decay

Chapter 10

ACROSS

1 baryon to photon
3 pillars
5 helium
12 age
14 decoupling
15 voids
16 hotter
17 baryonic
18 stars
19 finite
20 dark energy
21 steady state

DOWN

2 reionization
4 big bang
6 explosion
7 Hubble constant
8 homogeneity

- 9 redshift
- 10 recombination
- 11 deuterium
- 13 everywhere

Chapter 11

ACROSS

- 1 Hubble constant
- 4 quark
- 5 string
- 7 neutrino
- 8 open
- 10 GUT
- 11 volume
- 13 closed
- 15 omega
- 17 destiny
- 19 angular
- 20 increases
- 22 brane
- 24 Planck time
- 25 Friedmann
- 26 density
- 27 quintessence

DOWN

- 2 baryogenesis
- 3 vacuum
- 6 topology
- 9 dominated
- 12 hadron
- 13 critical
- 14 dark energy
- 16 quantum foam
- 18 electroweak
- 21 cyclic
- 23 radiation

Chapter 12

ACROSS

- 5 pressure
- 6 Hawking

7 flatness
9 gravitational
11 harmonics
12 singularity
15 inflation
18 sound
19 merger
23 acoustic peaks
24 dark matter

DOWN

1 exponential
2 fluctuations
3 horizon
4 Silk damping
10 wavelength
13 simulation
14 power spectrum
16 first peak
17 accretion
20 decoupling
21 graviton
22 structure

Chapter 13

ACROSS

3 amino acid
5 Drake
7 lipids
8 nucleotide
9 translation
11 enzyme
13 vesicle
16 psychology
18 biosignature
20 RNA world
22 base pair
23 transcription

DOWN

1 Miller Urey
2 biopolymer
4 Mars
6 extrasolar

10 SETI
12 evolution
14 sugar
15 membrane
16 protein
17 selection
19 gene
21 DNA

Chapter 14

ACROSS

1 habitable
4 epicycle
8 life
9 fine tuning
10 strong
11 anthropic

DOWN

2 acceleration
3 multiverse
5 inflation
6 evolving
7 Copernicus