Star (astronomy) Life Cycle Worksheet

Name: _____ Date: _____

1. Put the stages in order

Write 1, 2, 3... in the boxes to show the order of the star (astronomy) life cycle.

☐	**Main sequence star** – The star shines steadily for billions of years, like our Sun.
☐	**Nebula** – A star begins in a huge cloud of gas and dust.
☐	**End stage** – Small stars become white dwarfs; huge stars explode as supernovas.
☐	**Protostar** – Gravity pulls the gas together into a hot, spinning ball.
☐	**Red giant** – When fuel runs low, the star swells into a giant.

2. Match the word to its meaning

Write the letter next to each word.

1. nebula	A. a giant cloud of gas and dust in space
2. supernova	B. a huge star exploding at the end of its life
3. white dwarf	C. the small, hot core left after a star dies

3. Draw and label

Draw your favourite stage of the star (astronomy) life cycle and label it.

4. Explain

What happens between the first and last stage?

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Answer key

Correct order

Nebula → Protostar → Main sequence star → Red giant → End stage

Word match

1–A, 2–B, 3–C

Try this activity

Make a star life cycle mobile from card: a cotton-wool nebula, a yellow main sequence star, a big red giant and a tiny white dwarf. Hang them in order and explain how stars change over time.

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