Name	

The Life of a Star

Directions: Stars change as they age. Read the chain of events below, then **fill in the missing effects** (what happens next) or **causes** (what started the change). Use your knowledge of the star life cycle to complete each chain.

Chain 1 - A Small/Medium Star	
Cause: A cloud of gas and dust (nebu	la) begins to collapse under gravity.
Effect:	_ (1)
ightarrow The young star becomes stable and	l spends most of its life as a Main
Sequence Star.	
Effect:	_ (2)
ightarrow The star sheds outer layers and become	omes a Planetary Nebula .
Effect:	_ (3)
Chain 2 - A Massive Star	
Cause: A huge nebula collapses and f	orms a massive protostar.
Effect:	_ (4)
→ The star shines as a Massive Main S e	
Effect:	_ (5)
$ ightarrow$ The star collapses and explodes as σ	a Supernova.
Effect:	_ (6)
Challenge Question	
Why do massive stars have shorter lives with more material? Write 2-3 sentence	s than smaller stars, even though they start es.

