

In-class activity 25

This assignment is worth a maximum of 3.0 points, and is due in class today. No in-class assignment is accepted after the end of class.

Work cooperatively and collaboratively as a team on this in-class assignment. Each person in your group will be awarded the same points as the entire assignment. *Turn in this sheet at the end of class, and attach another page if necessary.*

Assemble Your Group

- [0.5 points.] Find your assigned group members, and sign in below.

Team member: _____

Team member: _____

Team member: _____

Team member: _____

Compact Object Companions

- [2.5 points.] (Cf. Fix, *Astronomy: Journey to the Cosmic Frontier*, 4/e, pages 507-511 for more details.) As shown below and on the next page, fill in the diagrams illustrating three types of compact objects with companion stars. Every one of the 21 rounded corner boxes should have an entry from the list below. Except where noted, each term should only be used once.

Accretion disk (3)

Black hole

Companion star (3)

Ejected H jets (2)

Infalling H (3)

Neutron star

Nova

X-ray bursts

X-ray pulsar beams

Type Ia supernova

UV blackbody radiation

White dwarf

X-ray blackbody radiation (2)



