

Student Name: \_\_\_\_\_

Unit No. **17****Part I.** Place the letter of the key term next to the correct definition.

Term	Definition
	A type or component or set of components that make up part of a whole.
	Refers to the act of combining several smaller subsystems into one overall system (a fully functioning robot) while ensuring all the component parts function effectively together.

**A.** Subsystem    **B.** Systems Integration**Part II.** Fill in the blanks.

\_\_\_\_\_ refers to the act of combining several smaller \_\_\_\_\_ into one overall system while ensuring all the component parts function effectively together.

\_\_\_\_\_ can refer to any number of things. In the VEX Robotics Design System, examples of these include Structure, Motion, and Power. This term can also refer to a subdivision of the overall robot, such as the gripper, arm or drive.

Generally speaking, to integrate subsystems effectively, try to \_\_\_\_\_ the number of components used whenever possible.