# Metaphor Organizer—Human Heart Is a Heat Pump

| **Element** | **Literal Pattern** | **Abstract Relationship** | **Literal Pattern** | **Element** |
|---|---|---|---|---|
| Heat Pump | Refrigerant pumped through a coil →<br>Absorbs heat from outside air, the ground, well water, or some other source →<br>To a compressor that raises its temperature and pressure →<br>Turns to vapor →<br>Flows to an indoor coil →<br>Warmth is radiated or blown into the space →<br>Refrigerant flows through a value that lowers temperature and pressure →<br>Turns to liquid →<br>Pumped into outdoor coil to begin cycle again → | A pump moves liquid through a system in order to make an ex-change | Blood from veins in the body flow through the superior vena cava and inferior vena cava into the right atrium →<br>Through the tricuspid valve to the right ven-tricle →<br>Through the pulmo-nary artery to the lungs →<br>Blood picks up oxygen and loses carbon diox-ide →<br>Pulmonary veins return oxygenated blood to the left atrium → | Heart |