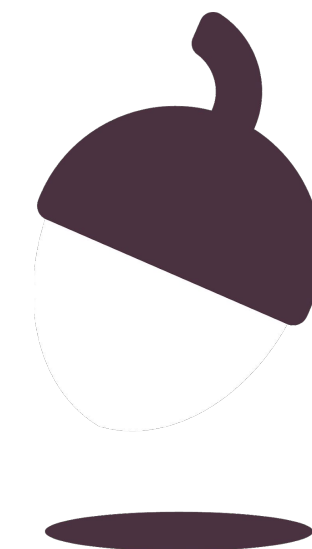


Combined Science - Biology - KS4
Organisation

The Heart

(Downloadable student document)

Mr Humphries



OAK
NATIONAL
ACADEMY

Independent Task

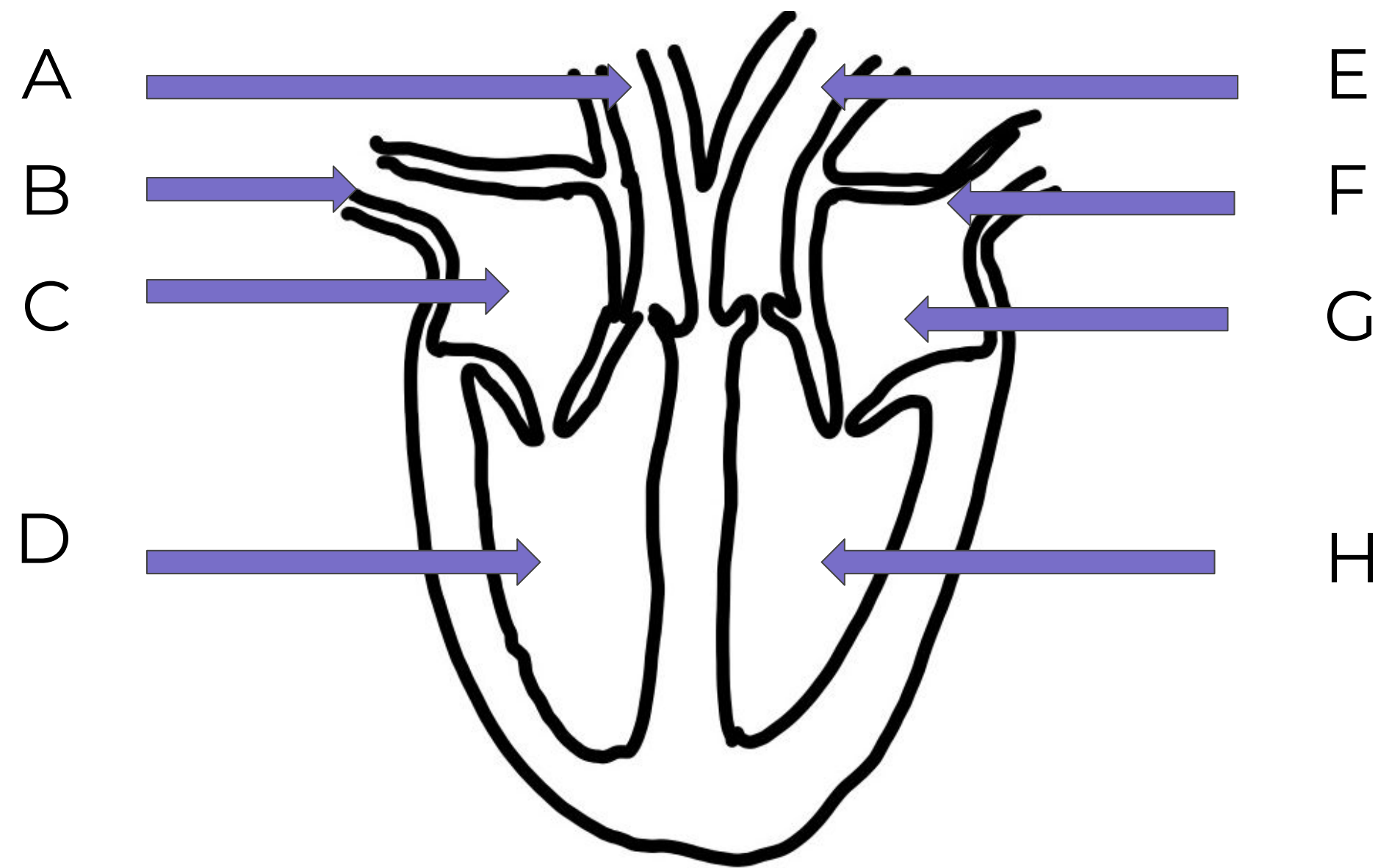


Image created by R Humphries



Independent Task

Complete the sentences

1. Oxygenated blood returns to the heart via the pulmonary _____
2. It then enters the heart at the left _____ and is pumped into the left ventricle
3. The blood is pumped to the body via the _____
4. Deoxygenated blood returns to the heart via the vena _____
5. It enters the heart at the right _____ and is pumped into the right _____
6. The blood travels back to the lungs via the pulmonary _____



Independent Task

A patient has a heart rate of 60 bpm and a stroke volume of 90 cm^3 . Work out the cardiac output.

1. Correct equation
2. Identify variables
3. Solve
4. Final answer and units



Independent Task

A patient has a heart rate of 70 bpm and a stroke volume of 70 cm³. Work out the cardiac output.

1. Correct equation
2. Identify variables
3. Solve
4. Final answer and units



Independent Task

A patient has a heart rate of 90 bpm and a stroke volume of 40 cm³. Work out the cardiac output.

1. Correct equation
2. Identify variables
3. Solve
4. Final answer and units

