

Animation Worksheet: Four-Stroke Cycle

Name: _____ Date: _____

1. A four-stroke engine completes a power cycle in four distinct strokes of the piston, which occur over _____ revolutions of the crankshaft.
2. On the _____ stroke, the piston moves down and the intake valve opens.
3. During the intake stroke, a mixture of _____ and _____ is drawn into the cylinder.
4. On the _____ stroke, the piston moves up and both valves are closed.
5. Compressing the air-fuel mixture increases its _____ and _____, preparing it for ignition.
6. Near the top of the compression stroke, the _____ fires to ignite the mixture.
7. The _____ stroke is the only stroke that actually produces the engine's power.
8. During the power stroke, the mixture ignites and causes an _____ that pushes the piston down with force.
9. On the _____ stroke, the piston moves up again to clear the cylinder.
10. During the final stroke, the _____ valve opens, and the burnt gases are pushed out of the cylinder.