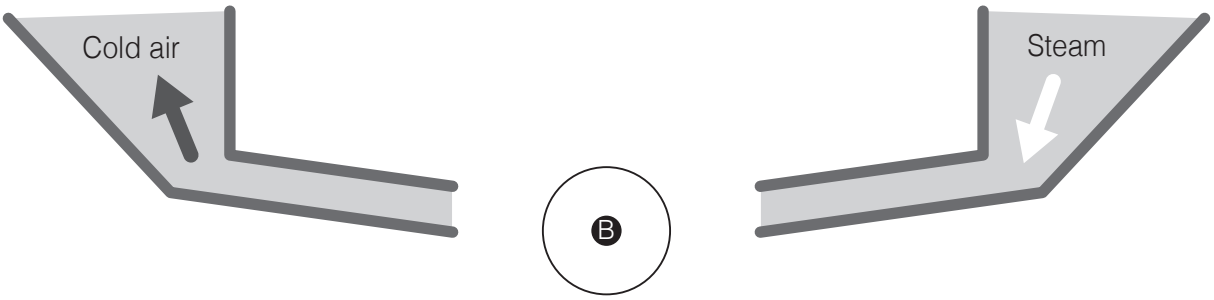


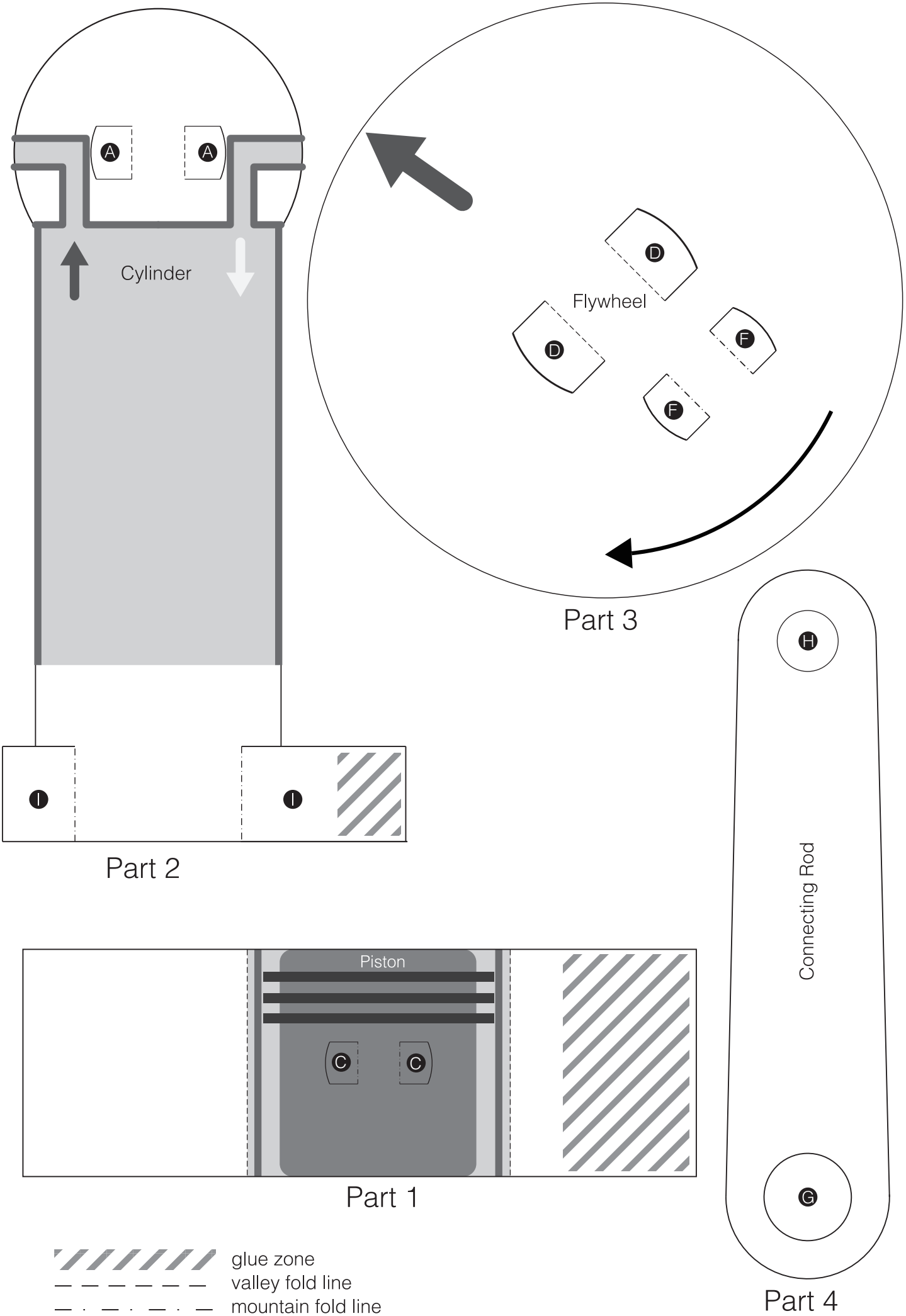
How a steam engine works
The combustion of fuel (normally coal) heats a boiler of water until it creates steam under pressure. This pressure pushes the piston out on the downward stroke. The energy of the water vapor (steam) is converted into kinetic energy by the engine.

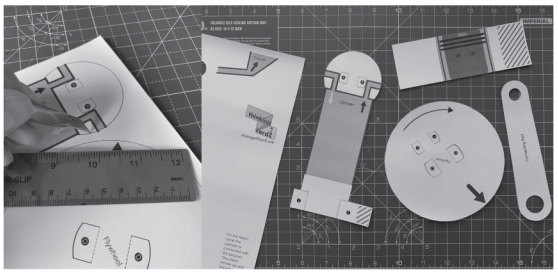
thinkingwithcard.com

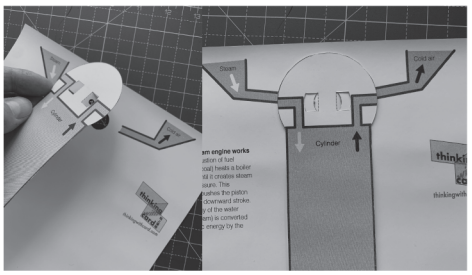
The cylinder is connected to the steam inlet, which pushes the piston down.

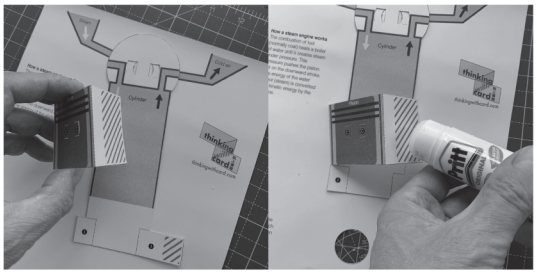
E

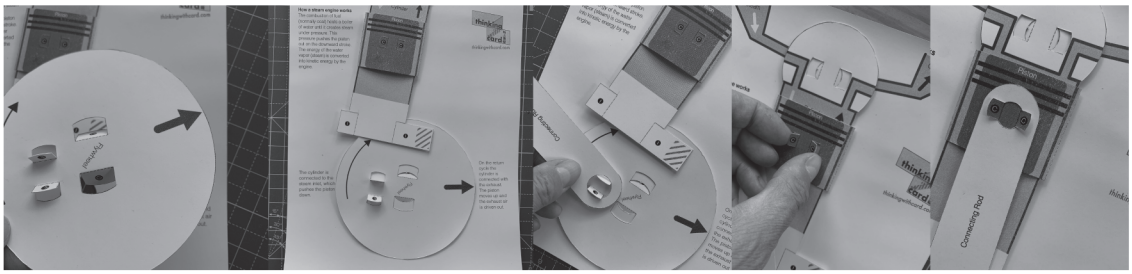
On the return stroke the cylinder is connected with the exhaust. The piston moves up and the exhaust air is driven out.

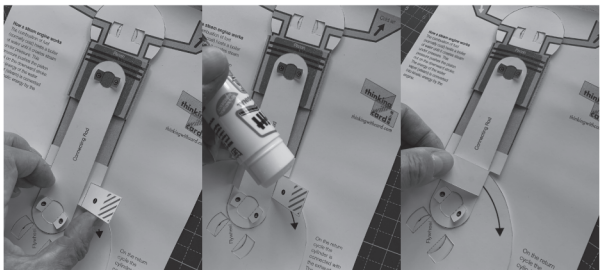

A
A
Cylinder
I
I
Part 2
D
Flywheel
D
F
F
Part 3
H
Connecting Rod
G
Part 4
Piston
C
C
Part 1
glue zone
valley fold line
mountain fold line
cut line

① 

② 

③ 

④ ⑤ 

⑥ 

① Cut out all parts as shown

② Insert flaps Ⓐ of Part 2 through hole Ⓑ on the main card

③ Make Part 1 as a sleeve, wrap it around Part 2 and apply glue to the glue zone

④ Insert flaps Ⓓ of Part 3 through hole Ⓔ on the main card

⑤ Insert flaps Ⓕ of Part 3 through hole Ⓖ on Part 4. Insert flaps Ⓒ through hole Ⓗ on Part 4

⑥ Wrap the arms Ⓘ around Part 4 and glue on the glue zone.