

JET ENGINE, HOW IT WORKS - KEY

1. How long have jet engines been used?

They have been used for nearly a century.

2. Which principle do jet engines follow to make the plane move forward?

The same that makes an air-filled balloon move (Newton's third law of motion).

3. Complete the following sentence:

"The higher the speed of the jet, the GREATER THE THRUST FORCE".

4. What happens inside the combustion chamber)

An atomized form of the fuel is burnt in the combustion chamber.

5. Where does the compressor receive the energy for the rotation from?

From a turbine.

6. Why is the engine case narrower towards the outlet?

Because it results in even greater jet velocity.

7. What do modern aircrafts use?

They use a slightly improved compressor arrangement called a 2-spool engine.

8. Can you mention a problem with turbo jet engines?

They tend to produce high levels of noise.

9. Why do turbofan jet engines dominate aircraft propulsion systems?

They have quieter exhaust and better fuel economy.