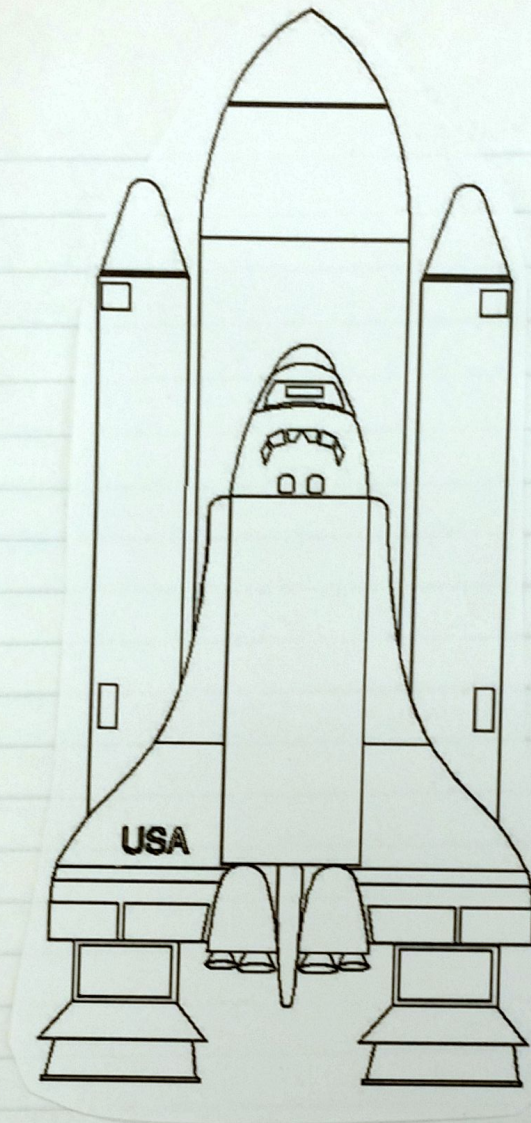


Rocket Launch

1. Label the action/reaction forces.



Reaction
Gas pushes
rocket up

Action
Rocket
Pushes
Gas
Down

Reaction
Earth pushes
gas (up)

Action
Gas pushes
on the Earth
(down)

2. How does Newton's 3rd Law allow rockets to launch into space?

Action/Reaction forces between the built up gas and the air/ground

3. How does Newton's 2nd Law explain the delay between when the fuel starts to burn and lift off?

As the mass (fuel) decrease as the gas is let out, it provides a change and enough force to accelerate the rocket up

Same force + less mass = ACCELERATION