P12 - 7.4 - Dyn Thrust to Accelerate Notes

$\uparrow$ +

$a = 2$

$$100$$

F_g

Earth
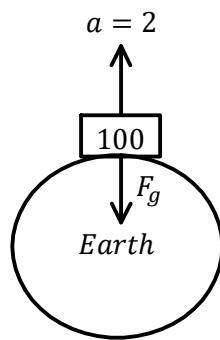
$$\Sigma F = ma$$
$$F_T - F_g = ma$$
$$F_T = ma + mg$$
$$F_T = m(a + g)$$
$$F_T = 100(2 + 9.8)$$

$$F_T = 1180 \ N$$

FBD

F_T

F_g