## 20-P-FA-AF-001

Newtons Law/Equation of Motion: Intermediate

Q: A: block that has a mass of M kg and is attached to a cord that has a tension of T acting directly upwards. What is the acceleration? (Use -ve to indicate downwards.) use 9.8 for gravity

1 T If it is D I above the earth's surface.

What is the force it exerts on the earth?

A: W= mg
T= fearth D

5F = Ma  $m_z = earth mass$   $m_z = M$ 

G= constant

T - Mg = Ma  $A = \frac{1 - Mg}{M}$