# PHYSICS FORMULAS

| **Speed** | **Acceleration** | **Force** | **Momentum** |
|---|---|---|---|
| $V=d/t$<br><br>v=speed (velocity)<br>d=distance<br>t=time | $a=(v_{final}- v_{initial}) /t$<br><br>a=acceleration<br>$v_{final}$= final velocity<br>$v_{initial}$= initial velocity<br>t= time | $F=ma$<br><br>F=force<br>m=mass<br>a=acceleration | $p=m \times v$<br><br>p=momentum<br>m=mass<br>v=velocity |
| **Work** | **Power (Work Formula #1)** | **Power (Work Formula # 2)** | **Power (Energy Formula # 2)** |
| $W=f \times d$<br><br>w=work<br>f=force<br>d=distance | $P= w \div t$<br><br>P=Power<br>w=work<br>t=time | $P= (f \times d)/ t$<br><br>P=Power<br>f=force<br>d=distance<br>t=time | $P= E \div t$<br><br>P=Power<br>E=Energy<br>t=time |