

Introduction to Physics & Engineering

Video Links Cheat Sheet

This document contains clickable links for the videos referenced throughout the course. Please note that on occasion videos will be removed by their creators. If you do come across any that have been removed, please notify us and we will work to find new ones for you.

Page 13

Autodesk:

https://www.youtube.com/watch?v=toYt_KQyugM

Page 16

Astronauts:

<https://www.youtube.com/watch?v=x2adl6LszcE>

Page 19

G-forces explained:

<https://www.youtube.com/watch?v=DMKcO-T5Y4o>

Page 34

A calculation explanation associated with targeting objects on the ground from planes:

<https://www.youtube.com/watch?v=CzIQ104Qfb0>

Page 37

Dale's Oak Tree Disposal:

<https://www.youtube.com/watch?v=0pHtvypiCHE>

Page 40

A little boy explaining first class levers:

<https://www.youtube.com/watch?v=YuHZg0F18GA>

Page 42

The same little boy explaining second-class levers:

<https://www.youtube.com/watch?v=5H8flw-Ub6M>

Page 45

A fun explanation of leverage and simple machines:

<https://www.youtube.com/watch?v=YIYEi0PgG1g>

Page 46

Awesome video of a large excavator...:

<https://www.youtube.com/watch?v=vLNayfMsNol>

Page 47

A great review of levers, ...:

<https://www.youtube.com/watch?v=eTa2EFd3JF0>

Page 79

Parbuckling rig:

<https://www.youtube.com/watch?v=f0T9dz-lvMY>

Page 81

An example of a wedge:

<https://www.youtube.com/watch?v=rW1Vq6uL0b0>

Page 98

Parbuckling the Concordia:

<https://www.youtube.com/watch?v=bcNc2CMqNWI>

Watch the actual time-lapse...:

<https://www.youtube.com/watch?v=RzRgPmRA5PM>

Another example of parbuckling:

<https://www.youtube.com/watch?v=JD1m53UckEk>

Page 99

An interesting inclined plane elevator:

<https://www.youtube.com/watch?v=-fu03F-lah8&feature=youtu.be>

Another boating example of parbuckling:

<https://www.youtube.com/watch?v=ov0jXYoYM8s>

Page 104 (NEW, the video from the link in the book has been removed)

A great video showing a crane with large pulley blocks:

<https://www.youtube.com/watch?v=G68JnDjOMzk>

Page 106

Here's another video that shows....:

<https://www.youtube.com/watch?v=73vnrGYmS5U>

Page 123

While this is an old video,...:

<https://www.youtube.com/watch?v=rkiBikJuWyE>

Page 124

A video of me demonstrating my compact track loader...:

<https://www.youtube.com/watch?v=iVYX6Dg6MrA>

A 4-in-1 bucket description...:

<https://www.youtube.com/watch?v=FLAlqzCKfe8&t=90s>

Page 127

Gear ratios on bikes:

<https://www.youtube.com/watch?v=qacvtrh-ot8>

Page 157

This video explains power steering,...:

<https://www.youtube.com/watch?v=Z1Y14AejfQU>