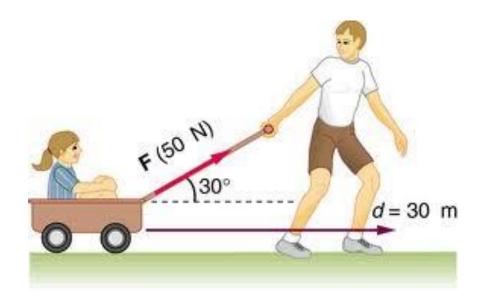
Work – The Transfer of Energy

Name:		Date:	
Mathematical Description	n of Work done on an o	bject	

The **Joule** is named after <u>James Prescott Joule</u> (1818-1889), an English scientist who did pioneering research into the relationship between work and heat.

<u>In general:</u> 1 joule is the amount of work done to by an applied force of 1 Newton acting through a displacement of 1m, in the same direction.

<u>Important Point</u>: Only the force component in the direction of motion does work on the object.



3 Zero Work Cases

Case 1:

Case 2:

Case 3: