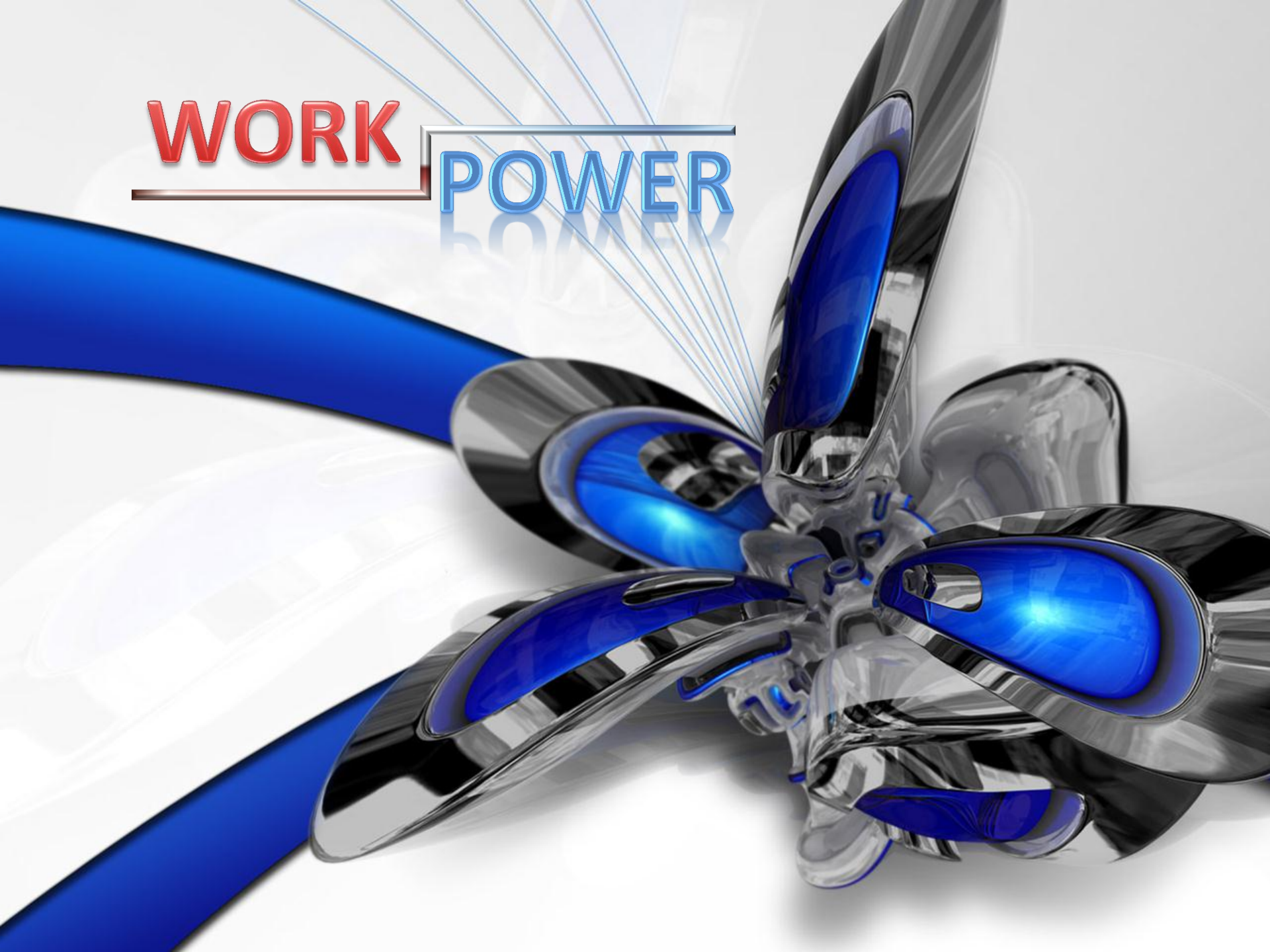


WORK

POWER



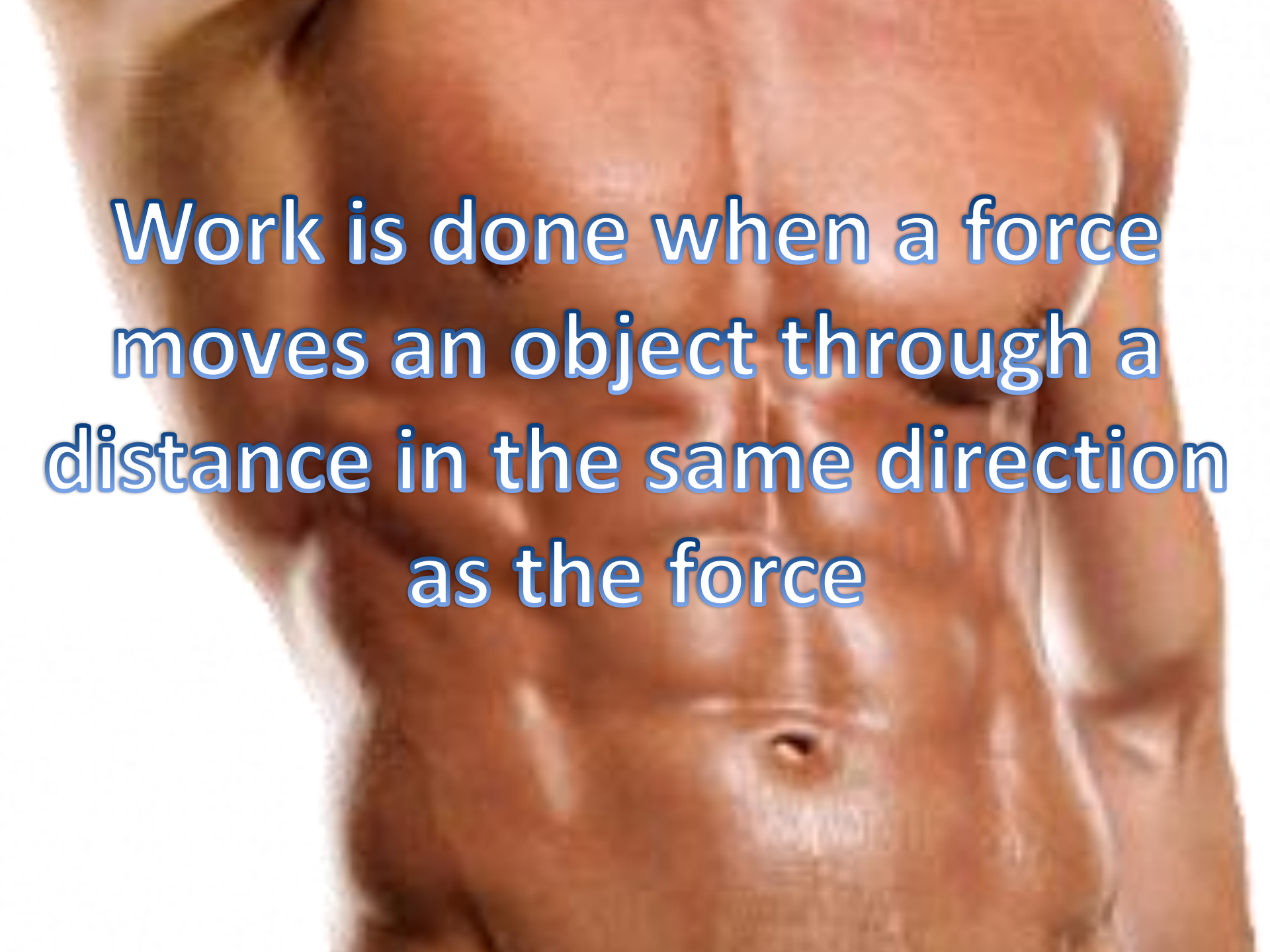
Work Done...

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Work done =
Force in the direction of motion
×
distance move

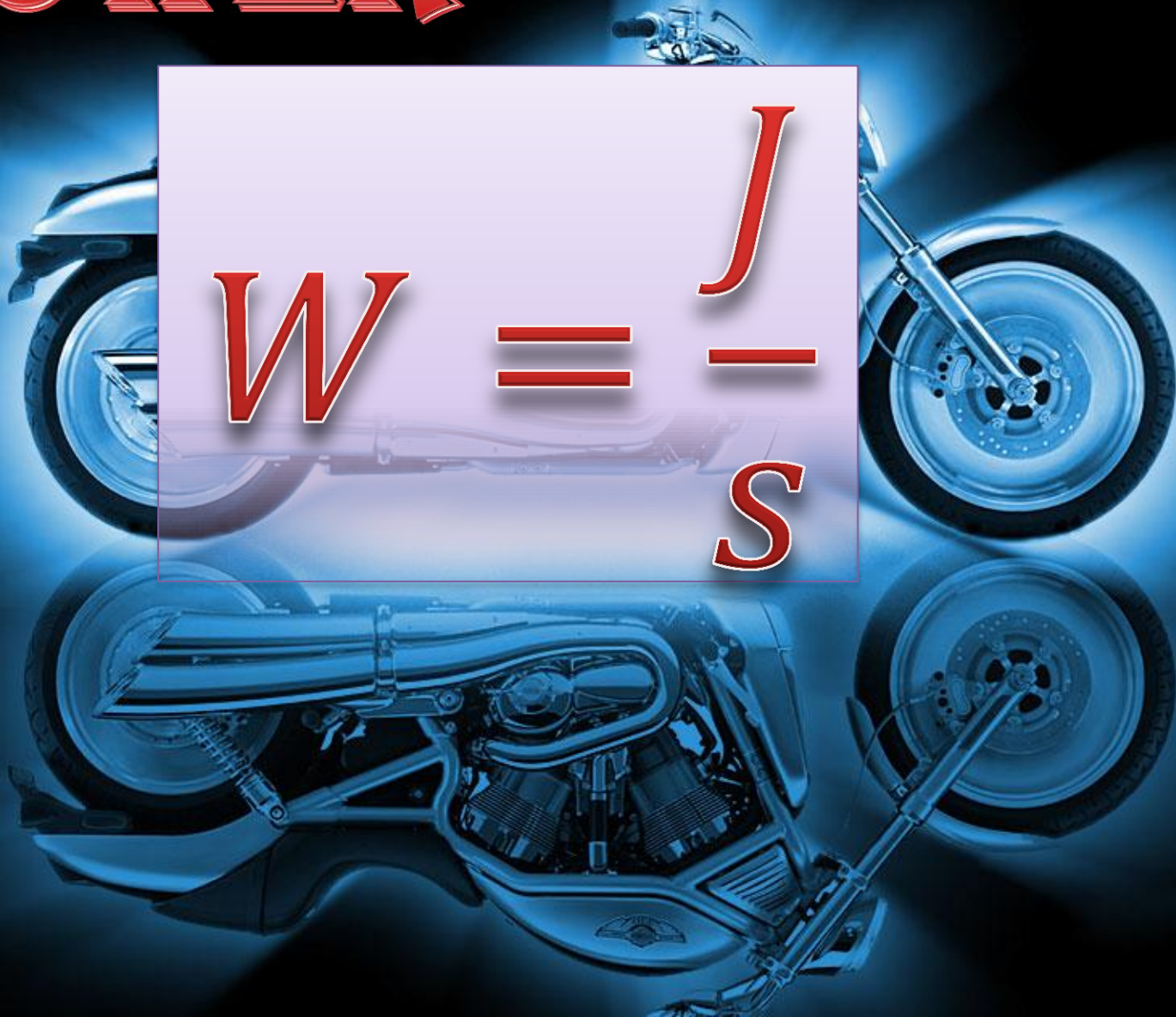
In Science $\rightarrow J = N \times m$



Work is done when a force moves an object through a distance in the same direction as the force

POWER

$$W = \frac{J}{S}$$



1. Define work
2. What is the relationship between work and energy?
3. State two factors which affect the work done on an object.
4. Give an example of a situation where an effort is used but no work is done
5. You do work when you push a box along a floor. What force are you overcoming?



6. Write an equation to show how power may be calculate
7. Give a definition for power



8. A device is marked 1000w. What does this means?
9. A car of mass of 600kg is towed to a distance of 1km in 20minutes. Calculate the power of the towing truck. (1kg=10N)