

Work done challenge

Complete as many questions from the grid below on work done and energy transfers.

Easy	Medium	Hard
Write the equation to calculate work done.	What is the work done if we apply a 1.2N force and we move 4m in the direction of force?	Thinking about energy transfers: When you rub your hands together what are the energy transfers?
Rearrange this equation for force applied.	What is the work done if we apply a 7N force and we move 8 m in the direction of the force?	When you boil a kettle what energy transfers are happening?
Rearrange this equation for distance moved in the direction of force.	What distance is moved if we have a 8N force and the work done is 90J?	Walking up a flight of stairs, what are the energy transfers?
What is the unit of force?	What is the distance moved if we have a 70N force and work done is 8J?	When you roll a ball down a hill what are the energy transfers?
What is the unit of work done?	What force is required to move 7m if the work done is 9J?	What is the work done when a force of 5N is applied to a ball and it moves 80m?
What is the unit of distance?	What force is required to move 19m if the work done is 9J?	What is the work done to a car if a force of 9N is applied and it moves 7km?
What work is done when we apply a force of 5N and move in the direction of the force 2m?	What force is required to move 7m if the work done is 21J?	What is the work done to a person if a force of 1.3N is applied and the person moves 6m?

★ **Extra Challenge:** Can you explain your answers to a peer?

