

Recall Quiz: Answer the following questions from memory in your books, remember to do this without looking back at your key knowledge

1. The Law of conservation of Energy states that ...
2. If an energy store dissipates, this means that it ...
3. The units of energy are ...
4. Energy can be transferred through these stores by electrical and mechanical means, as well as by ___ and ___
5. Name 3 energy stores

Self-Assess your recall quiz answers using the key knowledge table

I do, We do, You do: Complete the following table, the first two have been done for you as a model:

Example 1: An object is thrown up into the air. When the ball is released from the person's hand:
Model Answer: The transfer is from a <u>kinetic store</u> → <u>gravitational store</u> via a <u>mechanical transfer</u>
Example 2: A moving object hitting an obstacle – e.g. a moving tennisBall being hit by a tennis racket
Model Answer: The energy transfer here is from <u>kinetic store</u> → <u>elastic store</u> via a <u>mechanical transfer</u>
Practice: Example 3: A car speeding up (remember, fuel contains a chemical energy store): _____ → _____ Via a _____ transfer
Example 4: A car slowing down (hint, the brakes get hotter): _____ → _____ Via a _____ transfer
Example 5: Bringing water to the boil in a kettle _____ → _____ Via _____
Application: State energy transfers for each example (write your answers in your book). Use the same format as the previous examples. 1. electric drill 2. Bunsen burner 3. candle 4. desk lamp 5. wind-up toy 6. car at the top of a steep hill 7. sling-shot

Plenary: For each of the following statements, state if they are true or false.

1. Energy is found only in living objects.
2. Energy is a force.
3. Energy is associated only with movement.
4. Energy is a substance or fluid.