moving

vibrating

speed up

1.3 Energy stores and transfers

spring

thermal

lifted up

slow down

1. a. Complete the table below about energy stores using the words or phrases from the list. Use each word or phrase once, more than once, or not at all.

chemical

Type of store	Transferred to/from this store when	
gravitational potential	objects are	
kinetic	objects or	
	heating up or cooling down.	
elastic potential	stretching a	,
potential	using a battery.	

b.	Name four ways of transferring energy.	
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2. Read the information in the box then answer the questions below.

Mina gets on her bike to meet her friend at the cinema. They walk upstairs to find their seat. The music at the start of the film is very loud. They enjoy seeing the people in the film. They go downstairs and leave the cinema. On the way home they buy some food.

Each sentence talks about an energy store or transfer. Name the store or transfer in each sentence.

- a. It's transfer energy, so it's kinetic energy.
- b. They're moving, so it's transfer onergy (Kinetic)
- c. It's transfer energy obecause the sound is very loud (sound).
- a. It's transfer enlay a because how are watching film (right)
- e. It's store energy, because gravity heres Them go down (Gpe).
- 1. It's store energy, because they ate food. (Chemical)

Extension

- a. A student is making notes about nuclear energy but is confused. Write out a correct version of her notes.
 - 1. The reaction that produces energy in the Sun is a chemical reaction.
 - 2. Nuclear fusion happens when uranium breaks down.
 - 3. Nuclear fission happens when uranium combines.
 - 4. The fuel in a nuclear power station is hydrogen gas.
- **b.** Explain why the Sun cannot be a huge hall of fire.