

Concept map

Finish the Motion and forces map with linking phrases.



NAME _____ CLASS _____ DATE _____

LEARNING GOAL

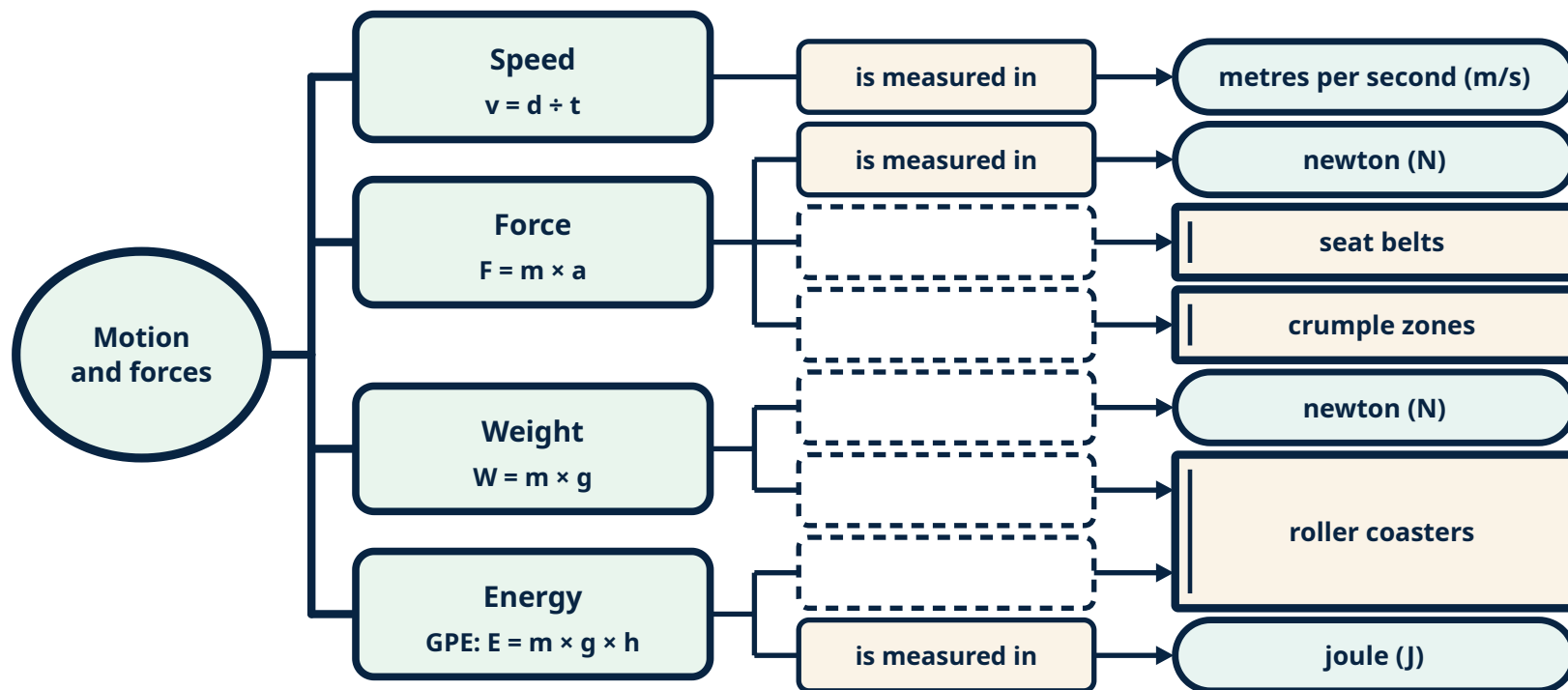
Join ideas about motion, forces and energy with phrases that make true sentences.

SUCCESS CRITERIA

- ☐ I can pick a linking phrase that reads as a true sentence.
- ☐ I can match an equation and a unit to each idea.

ENTRY 1

Write a linking phrase from the bank in each dashed box, then read each link aloud: does it make sense?



LINKING-PHRASE BANK

- IS CALCULATED USING
- DEPENDS ON
- IS MEASURED IN
- IS AN EXAMPLE OF
- IS NEEDED FOR
- IS USED IN

FACT

g is about **10 N/kg** on Earth, used on this sheet. **GPE**: gravitational potential energy, gained when lifted.

KEY

Oval: big idea. **Pill**: a unit. **Square box**: an application. **Dashed box**: you write.

My own concept map



NAME _____ CLASS _____ DATE _____

ENTRY 1

CONCEPT BANK

mass

acceleration

weight

kinetic energy

gravitational potential energy

height

speed

force

seat belt

parachute

NOTES TO SELF

DO THIS

Pick **8 ideas** from the bank, one per oval. Join them with arrows through the dashed boxes and write a phrase in each.

One link I am proud of

A question this map raises for me

ENTRY 2

Check my calculation: write the working, then the answer in the ring

CHECK 1 $F = m \times a$

A 2 kg trolley accelerates at 3 m/s^2 .
What is the force?

Working

CHECK 2 $W = m \times g$

A person has a mass of 60 kg. Use
 $g = 10 \text{ N/kg}$. What is the weight?

Working

CHECK 3 $E = m \times g \times h$

A 0.5 kg ball is lifted 2 m. Use
 $g = 10 \text{ N/kg}$. What GPE does it gain?

Working

CHECK 4 $v = d \div t$

A car travels 150 m in 10 s. What is
its speed?

Working

