Answer	Notes	Marks
arrows in opposite directions and (roughly) parallel with the length of the spring;	allow • a line with a double head • arrows to R & L ignore arrow length arrows need not be adjacent to the spring judge by eye	1
any suitable example; e.g. sound ultrasound 'p' wave	ignore waves in a slinky	1
suitable horizontal line (labelled W); e.g. from peak to peak from trough to trough from midpoint to corresponding midpoint between any adjacent points in phase	judge by eye but should start and finish at suitable points	1
2.5 (cm)	do not allow 5/2 allow 2 ½	1
substitution into f=1/T; evaluation; unit; e.g. f=1/15 0.067 Hz	no mark for equation as it is given on page 2 -1 for POT error ignore answers given as fractions allow 0.07, 0.0667 s ⁻¹ condone incorrect truncation e.g. 0.06, 0.066, 0.0666	3
	arrows in opposite directions and (roughly) parallel with the length of the spring; any suitable example; e.g. sound ultrasound 'p' wave suitable horizontal line (labelled W); e.g. from peak to peak from trough to trough from midpoint to corresponding midpoint between any adjacent points in phase 2.5 (cm) substitution into f=1/T; evaluation; unit; e.g. f=1/15 0.067	arrows in opposite directions and (roughly) parallel with the length of the spring; allow a line with a double head arrows to R & L ignore arrow length arrows need not be adjacent to the spring judge by eye any suitable example; e.g. from peak to peak from trough to trough from midpoint to corresponding midpoint between any adjacent points in phase 2.5 (cm) do not allow 5/2 allow 2 ½ substitution into f=1/T; no mark for equation as it is given on page 2 evaluation; e.g. f=1/15 0.067 Hz allow 0.07, 0.0667 s ⁻¹ condone incorrect truncation e.g. 0.06,