## 1c: 'Teaching' live content



### **Opportunities for support:**

- 1. Provide <u>scaffolded tasks</u> to support
- 2. Share videos to unpick <u>misconceptions</u>; <u>live</u> <u>model</u> examples before practice
- 3. Use <u>break out rooms</u> to target groups (LSAs/Teacher)

## Support: Scaffolded tasks



#### Velocity Time Graphs

The following table represents the movement of a car:-

Velocity (m/s)	0	5	10	15	15	15	12	9	6	3	0
Time (seconds)	0	1	2	3	4	5	6	7	8	9	10

Draw a Velocity time graph (with time on the x-axis)

Answer the questions below:

- What is the acceleration of the car between 0 and 3 seconds?
   [Remember acceleration is equal to the change in velocity + time]
- Between 3 and 5 seconds the car is still accelerating true or false? Explain your answer.
- How would you describe the movement of the car between 5 and 10 seconds?
- 4. What distance does the car travel in the first 3 seconds?
- What distance does the car travel in the total journey?

#### More difficult

A racing car (at rest) accelerates uniformly from the starting grid on the race track and reaches a top velocity of 30 meters/second/second after 5 seconds. For the next 4 seconds the acceleration is 0 and finally the car decelerates (brakes) at 4meters/second/second for 5 seconds.

Draw a Velocity time graph (with time on the x-axis). If you are stuck, try marking what the velocity would be after each second

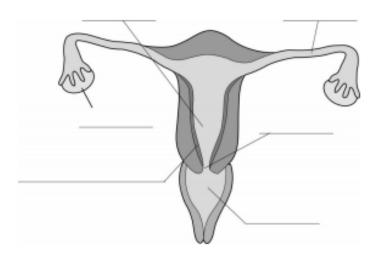
Answer the questions below:

- 1. What distance does the car travel in the first 5 seconds?
- 2. What is the velocity of the car after 7 seconds?
- What is the velocity of the car after 14 seconds?
- If the car carried on decelerating at 4m/s², how many more seconds would it take before it came to a stop?
- 5. What is the acceleration in the first 5 seconds?

#### he female reproductive system

Use these words to label the diagram.

Uterus (womb)	Oviduct (fallopian tube)	ovary
cervix	lining of the uterus	vagina



Draw a line to match each part to its function,

#### Part

run
uterus (womb)
oviduct (Fallopian tube)
Ovary
cervix
lining of the uterus
vagina

#### Function

Sperm enter the body here.

Eggs (ova) are made, stored and released from here.

This is a narrow opening between the vagina and uterus.

This is where a fetus will develop,

Eggs travel along this tube on the way to the uterus.

This thickens every month in order to receive a fertilised egg,

## Support: Videos to address misconceptions



$$\frac{1+\cot x}{1+\tan x}=5.$$



# Support: Live modelling example questions

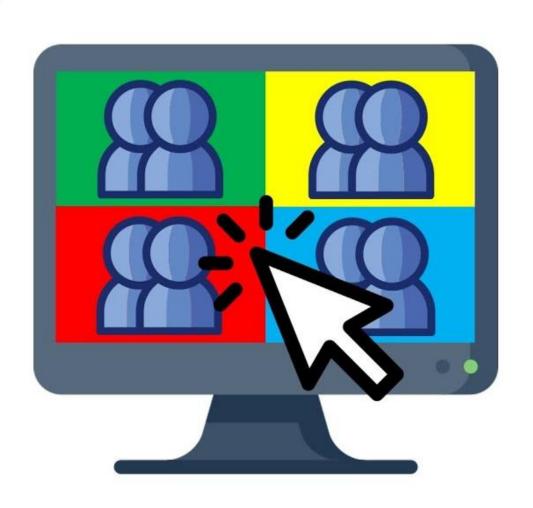
Walkthrough

$$0 = p \times t$$
 $800 \times (3 \times 60)$ 
 $800 \times 180$ 
 $144,0007$ 

$$\begin{array}{r}
 \boxed{3} & \frac{144000}{195500} \\
 = 0.736 \\
 = 0.74
\end{array}$$

## **Support: Breakout rooms**





- Targeting students for support/challenge
- Allowing for small group discussion
- Promoting collaborative working
- Enabling targeted LSA support
- Intervening during 'live lessons'