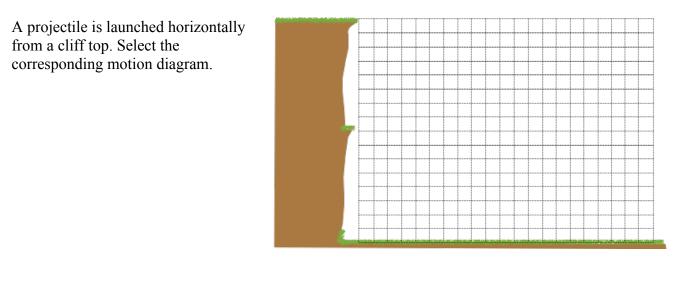
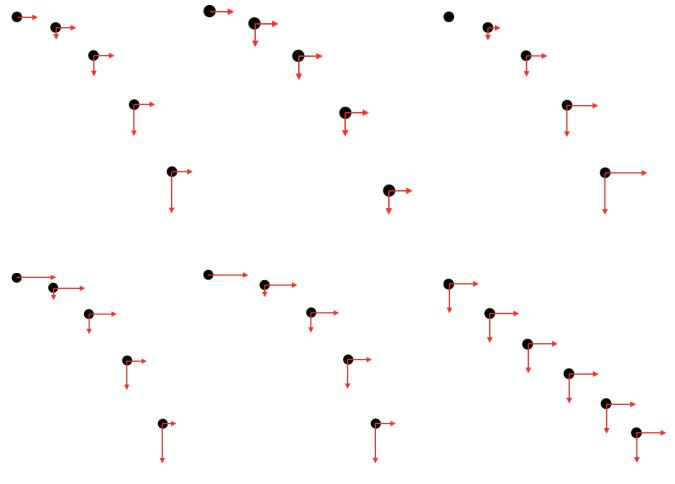
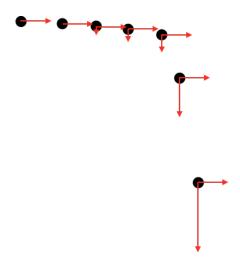
Trajectory: Horizontally Launched Projectiles

There are five questions in this Concept Builder. They differ only in terms of the initial launch velocity. The velocity values are 12.0 m/s, 14.0 m/s, 15.0 m/s, 16.0 m/s, and 18.0 m/s.



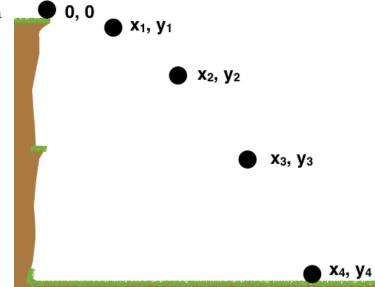




A projectile is launched horizontally from a cliff top at 12.0 m/s. Determine the values of the velocity components at 1-second intervals of time.

time (s)	V _x (m/s)	V _y (m/s)
0.0		
1.0	A:	B:
2.0	C:	D:
3.0	E:	F:
4.0	G:	H:

A projectile is launched horizontally from a cliff top at 12.0 m/s. Determine the x-y positions at 1-second intervals. The launch position is (0 m, 0 m).



time (s)	x-Position (m)	y-Position (m)
0.0		
1.0	x ₁ :	y 1:
2.0	x ₂ :	y ₂ :
3.0	X ₃ :	y ₃ :
4.0	X4:	y 4: