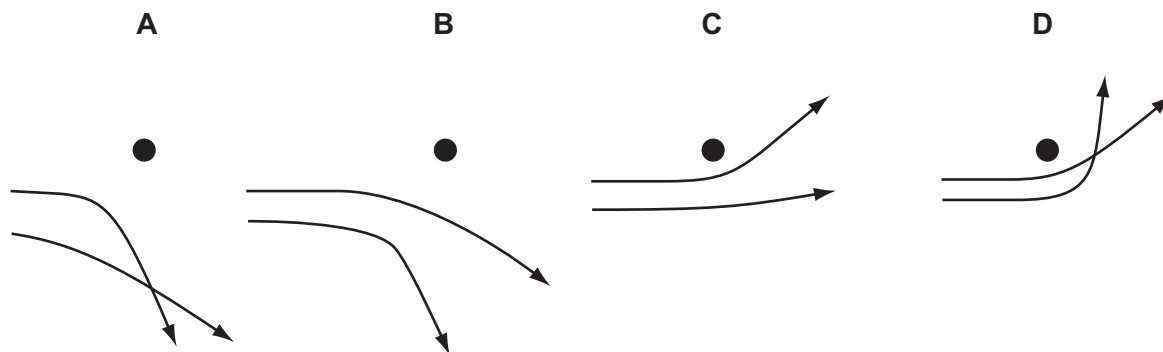


**40** Two  $\alpha$ -particles with equal energies are deflected by a large nucleus.

Which diagram best represents their paths?



**Space for working**