## AQA - Space physics - GCSE Combined Science Physics

1.	June	2021/	'Paper_	2F	/No.50	(5.6)
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0 5.6 The rocket aeroplane will fly at a greater height than a jet aeroplane.

The height that an aeroplane flies at affects the radiation dose a passenger will receive each hour.

**Table 2** shows the speed of each aeroplane and the radiation dose a passenger will receive each hour.

Table 2

Aeroplane	Speed in metres per second	Radiation dose each hour in millisieverts	
Rocket aeroplane	8000	0.006	
Jet aeroplane	250	0.003	

Exposure to ionising radiation has risks and possible consequences.

Evaluate the risks and possible consequences of flying in a rocket aeroplane and in a jet aeroplane.

Assume the same journey is made in each aeroplane.

Use values from Table 2.	[6 marks]