## **Vector and Scalar Questions for GCSE Physics**



1.	What is the difference between a scalar quantity and a vector quantity?
2.	Why is mass considered a scalar quantity?
3.	Why do we use the term <b>magnitude</b> when describing scalars and vectors?
4.	Give two examples of scalar quantities and two examples of vector quantities.
5.	What is the key difference between <b>speed</b> and <b>velocity</b> ?

6.	Why is <b>displacement</b> a vector while <b>distance</b> is a scalar?
7.	Which of these quantities are vectors? (a) Force, (b) Energy, (c) Time, (d) Acceleration?
8.	If an object is moving at a constant speed but changing direction, is its velocity also constant? Explain your answer.
9.	Why is <b>temperature</b> NOT considered a vector quantity, even though it can be negative?
10	A student argues that "time is a vector because we can go back in time in movies." Explain why this is incorrect.