



# Evidence for Climate Change: Global Temperature Data Reading Comprehension **Answers**

1. Describe what is meant by 'global temperature data'.  
**Global temperature data is based on satellite readings and thousands of ground weather stations.**
2. How many degrees do scientists believe the average Earth temperature has risen since 1880?  
**0.85°C**
3. How many degrees do scientists believe the average temperature on Earth has risen since 1950?  
**0.6°C**
4. Using data from Figure 1, describe the trend of global temperatures on Earth between 1880 and 1936.  
**All readings between the years 1880 and 1936 were rising and falling but always remained under 0°C. The lowest temperature readings recorded were in 1902, 1908 and 1916. The highest temperature readings were in 1880, 1885 and 1899.**
5. Using data from Figure 1, describe the trend of global temperatures on Earth between 1936 and 2016.  
**The temperature generally shows an increase of 1°C between 1936 and 2016. There was a cooling period between 1940 and 1980 when temperature increase dropped to under 0°C. After 1980 temperatures were steadily increasing before rapidly increasing from 2009 to 2016.**
6. Describe the Central England Temperature (CET).  
**The Central England Temperature (CET) is a succession of average temperatures typical of a central area of the United Kingdom.**
7. State which two years are tied for the hottest years on record since record-keeping began.  
**2020 and 2016**
8. How many of the hottest years recorded have occurred since 2000?  
**19**
9. Describe how global temperature data has improved over time.  
**Using thermometers when calculating data readings has improved the reliability of the data collected.**
10. Explain the main issue regarding the reliability of using global temperature data as evidence for climate change.  
**Measurements (particularly early ones) may not be as consistent or widespread as data from more recent years.**