

<p>01. Question:</p> <p>The Planck mission is named after whom?</p> <p>A. Hans Planck B. Max Planck C. Richard Planck</p>	
<p>01. Question:</p> <p>Who was Planck?</p> <p>A. Co-founder of quantum physics B. Co-founder of sociology C. Co-founder of exobiology</p>	
<p>02. Question:</p> <p>Approximately when did the big bang occur?</p> <p>A. 12.7 billion years ago B. 13.7 billion years ago C. 14.7 billion years ago</p>	
<p>02. Question:</p> <p>What is the phase of extremely rapid expansion called?</p> <p>A. Deflation B. Fluctuation C. Inflation</p>	
<p>03. Question:</p> <p>What do cosmologists call the pattern in cosmic microwave background radiation?</p> <p>A. God's fingerprint B. God's footprint C. God's DNA trail</p>	

<p>03. Question:</p> <p>When did microwave radiation come into existence?</p> <p>A. 170,000 years after the big bang B. 270,000 years after the big bang C. 370,000 years after the big bang</p>	
<p>04. Question:</p> <p>What temperature is the background radiation today?</p> <p>A. Approx. 3 °C above absolute zero B. Approx. 30 °C above absolute zero C. Approx. 60 °C above absolute zero</p>	
<p>04. Question:</p> <p>What did Gamow, Alpher and Herman predict?</p> <p>A. The existence of background radiation B. The existence of black holes C. The existence of exoplanets</p>	
<p>05. Question:</p> <p>When was the observation of Gamow, Alpher and Herman confirmed?</p> <p>A. 1953 B. 1963 C. 1973</p>	
<p>05. Question:</p> <p>Arno Penzias and Robert Wilson were...</p> <p>A. Engineers at Bell Telephone Laboratories B. Journalists at the Chicago Tribune C. Technicians at AT&T</p>	

<p>06. Question:</p> <p>For discovering background radiation Arno Penzias and Robert Wilson received...</p> <ul style="list-style-type: none"> A. Prize money totalling US \$1 million B. The offer of a professorship at Harvard C. The Nobel Prize in physics 	
<p>06. Question:</p> <p>What was one of the things that provided confirmation for background radiation?</p> <ul style="list-style-type: none"> A. The big bang theory B. The existence of black holes C. The theory of the end of the Universe 	
<p>07. Question:</p> <p>The best data to date has been supplied by the satellite launched in 2001 called...</p> <ul style="list-style-type: none"> A. PAWM B. MAPW C. WMAP 	
<p>07. Question:</p> <p>What percentage of the cosmos consists of commonplace material?</p> <ul style="list-style-type: none"> A. Approx. 4% B. Approx. 14% C. Approx. 24% 	
<p>08. Question:</p> <p>The instruments on WMAP were able to detect differences in temperature of a few...</p> <ul style="list-style-type: none"> A. Thousandths of a degree B. Millionths of a degree C. Billionths of a degree 	

<p>08. Question:</p> <p>What percentage of the cosmos consists of dark material?</p> <p>A. Approx. 2%</p> <p>B. Approx. 12%</p> <p>C. Approx. 22%</p>	
<p>09. Question:</p> <p>What percentage of the cosmos consists of dark energy?</p> <p>A. Approx. 54%</p> <p>B. Approx. 64%</p> <p>C. Approx. 74%</p>	
<p>09. Question:</p> <p>How much more sensitive are Planck's detectors than those which were on WMAP?</p> <p>A. Five times</p> <p>B. Ten times</p> <p>C. Fifteen times</p>	
<p>10. Question:</p> <p>Compared to WMAP, Planck's angle resolution is ...</p> <p>A. Twice as good</p> <p>B. Three times better</p> <p>C. Four times better</p>	
<p>10. Question:</p> <p>What is the location called at which Planck will be 'parked'?</p> <p>A. Lagrange point 2</p> <p>B. Langrange point 2</p> <p>C. Larange point 2</p>	

<p>11. Question:</p> <p>Planck and Herschel will be launched into outer space together using which rocket?</p> <p>A. Ariane 3 B. Ariane 4 C. Ariane 5</p>	
<p>11. Question:</p> <p>Courou, the location from which Planck will be launched, is in which country?</p> <p>A. French Guiana B. The Netherlands Antilles C. Surinam</p>	
<p>12. Question:</p> <p>How large is the oval-shaped main reflector?</p> <p>A. 1.0 metre B. 1.5 metres C. 1.8 metres</p>	
<p>12. Question:</p> <p>How many cooling systems does Planck have?</p> <p>A. 2 B. 4 C. 6</p>	
<p>13. Question:</p> <p>How low can the cooling systems cool?</p> <p>A. To 0.2 °C above absolute zero B. To 0.1 °C above absolute zero C. To absolute zero</p>	

<p>13. Question:</p> <p>How many degrees Celsius is the cosmic background radiation?</p> <p>A. 2.1 °C above absolute zero</p> <p>B. 2.3 °C above absolute zero</p> <p>C. 2.7 °C above absolute zero</p>	
<p>14. Question:</p> <p>How much does Planck weigh?</p> <p>A. 1,800 kilograms</p> <p>B. 1,900 kilograms</p> <p>C. 1,950 kilograms</p>	
<p>14. Question:</p> <p>What are Planck's dimensions?</p> <p>A. Four times four metres</p> <p>B. Five times five metres</p> <p>C. Six times six metres</p>	
<p>15. Question:</p> <p>Which frequency range does HFI record?</p> <p>A. Between 50 and 837 gigahertz</p> <p>B. Between 75 and 857 gigahertz</p> <p>C. Between 100 and 857 gigahertz</p>	
<p>15. Question:</p> <p>Which frequency range does LFI record?</p> <p>A. 30, 44 and 70 gigahertz</p> <p>B. 40, 54 and 80 gigahertz</p> <p>C. 50, 64 and 90 gigahertz</p>	
