The Hubble Telescope

Go to [http://hubblesite.org/the_telescope](http://hubblesite.org/the_telescope) and answer the questions that follow.

1. In what year was the Hubble Space Telescope (HST) launched? _______________

2. State three things that the HST has allowed scientists to discover about the universe.
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________

3. Explain how the position of the HST above the earth’s atmosphere increases its view of space.
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_____________________________________________________________________________________
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4. Briefly describe how the HST works.
_____________________________________________________________________________________
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5. Briefly state the role of each of the following instruments:

Wide Field Camera 3:
_____________________________________________________________________________________
_____________________________________________________________________________________
Cosmic Origins Spectrograph:

Advanced Camera for Surveys:

Space Telescope Imaging Spectrograph:

Near Infrared Camera and Multi-Object Spectrometer:

Fine Guidance Sensors:

6. Outline some difficulties with using technology such as the HST.

7. Have a look at the picture gallery... photos taken by the HST.

8. Name Hubble’s successor telescope. What will be its mission and what is its position above the Earth?