

Satellites

Creative

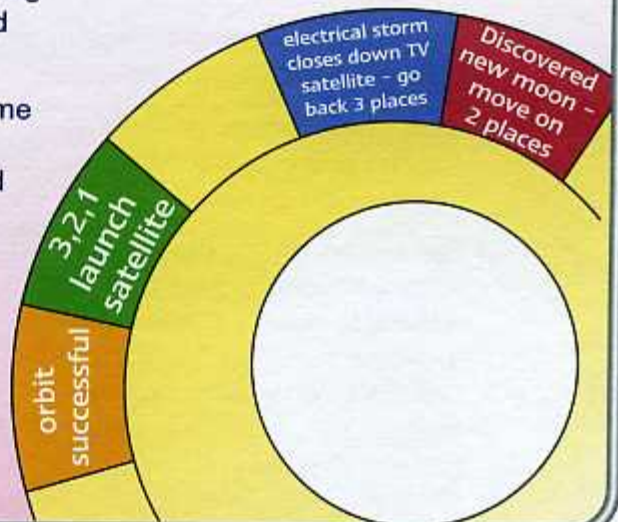
4-5

- 1** Artificial satellites play a major role in our everyday lives, orbiting the Earth and transmitting, among other things, TV signals, weather pictures and telephone signals back to Earth.

Design a simple satellite action computer game or board game. Make sure that you cover all of the different uses for artificial satellites and that your game is challenging and fun!

(Hint: Your design must be imaginative and exciting – to get you started, here is a potential design for a board game.)

Play your game with a classmate next lesson.



Test yourself

5-6

- 2** a Sketch out the diagram of the Earth below.
- Add to the diagram the orbit of a TV satellite above the Earth.
 - Draw the signal from the satellite to a TV dish on a house on Earth.
 - Why is it important that the satellite remains in a fixed orbit above the Earth's surface?
- b Why do the following people rely on satellites?
- weather forecasters
 - intelligence services
 - astronomers.
- c Add to your diagram the Earth's natural satellite and label the name of this natural satellite.



Digital

7-8

- 3** Conduct research online into the orbits of geostationary and polar orbiting satellites. Produce a diagram of the satellites to explain how they work, describe their current uses and mention any potential uses that they could have in the future. Post your findings as a wiki.