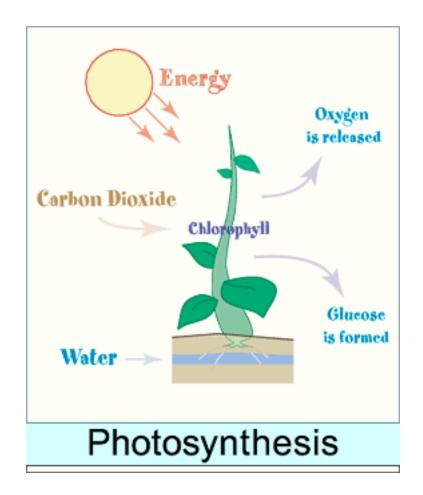
## **Energy Flow in Ecosystems**

	Radiant energy (light energy) from the SUN keeps all organisms alive		
	30% reflected back into <a href="Space">Space</a> 70% absorbed by hydrosphere & <a href="lithosphere">lithosphere</a> - thermal energy - 0.023% of the radiant energy is used for		
Photosynthesis			
	Organisms that convert the light energy to produce their		
	own food are called <u>producers</u> (autotrophs)		
	All other organisms (i.e., humans) depend on these		
con	sumers (heterotrophs)for food.		
	Some of these <u>producers</u> are land-based. The		
	green colour of plants comes from chlorophyll		
	which captures the light energy.		
	Other producers , such as algae &		
	cyanobacteria are aquatic based.		
The reaction for photosynthesis is:			
	VIDERA TO SERVICE SERV		
Jan 12			



Sugar (glucose) is chemically stored energy!!!

## **Cellular Respiration**

Chemical process in which energy is released from food (stored energy - glucose)

The reaction for cellular respiration is:

Organisms that cannot convert light energy to produce their own food are called consumers .		
These their energy by consumir	(such as us humans) obtain	