



### 3) MRI or Magnetic Resonance Imaging:

- Date \_\_\_\_\_
- <sup>use</sup> Radio waves and strong magnetic field to produce signal directed at the brain.   
 → causes hydrogen atom in the brain cells to spin.
  - cause the spinning hydrogen atom to emit signal.
  - computer amplifies and analyses signals from the hydrogen atom to construct a picture.
  - MRI is superior than CT.



### 4) SPECT or Single Photon Emission Computerized Tomography

- tracking cerebral blood flow
- uses photon, a single particles of light-

### 5) SQUID or Super Conducting Quantum Interference Device

- It senses tiny changes in the brain's magnetic field and show the pattern of neural activity in the brain a three dimensional output.

### 6) EEG or Electroencephalogram

- records the electrical activity of the brain.

Experimental  
ablation

↓  
destroy some parts of  
brain in animal

stereotaxic apparatus

↓  
enter electrode in brain