

No	Principle	Case study	No	Principle	Case study
1	Segmentation	▪ Bacterial ▪ amoeba	21	Skipping	▪ Animal nerve movement
2	Taking out	▪ Plant roots ▪ Blood Components	22	Blessing in disguise	▪ Antibodies to diseases
3	Local quality	▪ Animal and plant organs	23	Feedback	▪ Metabolic cycle
4	Asymmetry	▪ Fertilized egg	24	Intermediary	▪ Function of enzyme
5	Merging	▪ Fertilized egg of sex cells	25	Self-service	▪ Regeneration of organization
6	Universality	▪ Breathing ▪ Diversity functions such as metabolis	26	Copying	▪ DNA modeling
7	Nested doll	▪ Pregnancy ▪ Descendants	27	Cheap short-living objects	▪ Use of mineral substances in plants
8	Anti-weigh	▪ Bones and muscles	28	Mechanics substitution/ Another Sense	▪ Animal cartilage
9	Preliminary anti-action	▪ Hormonal regulation and animal and plant stress	29	Pneumatics and hydraulics	▪ Water absorption
10	Preliminary action	▪ Subcutaneous fat and carbohydrates of animals ▪ Saliva for digestion	30	Flexible shells and thin films	▪ Cell membrane
11	Beforehand cushioning	▪ Blood flow check valve	31	Porous materials	▪ Sponge-like tissue of plants
12	Equipotentiality	▪ Bird bones are hollow to fly	32	Color changes	▪ Skin pigment change
13	The other way round	▪ Catabolism and assimilation	33	Homogeneity	▪ Stable growth
14	Sphericity- Curvature	▪ Cytoplasmic network structure	34	Discarding and recovering	▪ Removal of different damaged tissue
15	Dynamics	▪ Phototropism	35	Parameter changes	▪ Changes in scientific parameters during digestion
16	Partial or excessive actions	-Add HCl for digestion	36	Phase transitions	▪ Cytoplasmic phase transition
17	Another dimension	▪ Resistance to stress	37	Thermal expansion	▪ Thermal expansion of Araceae plants
18	Mechanical vibratio	▪ Vibration of insect wings	38	Strong oxidants	▪ Oxidase in respiration
19	Periodic action	▪ Seasonal changes	39	Inert atmosphere	▪ Blood synthesis
20	Continuity of useful action	▪ photosynthesis	40	Composite materials	▪ Organic materials