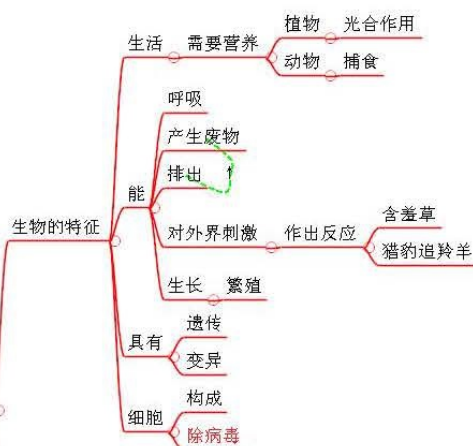
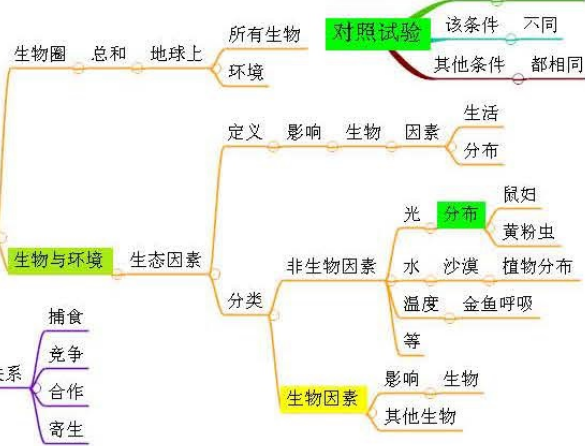


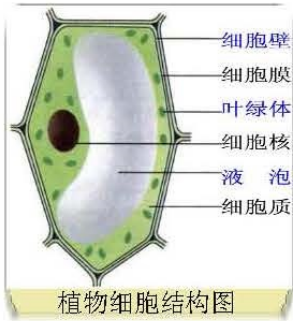
生物和生物圈

认识生物

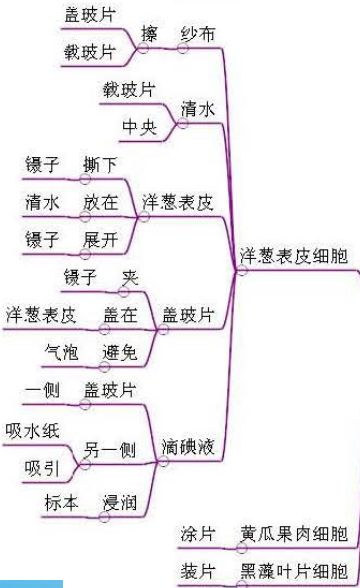
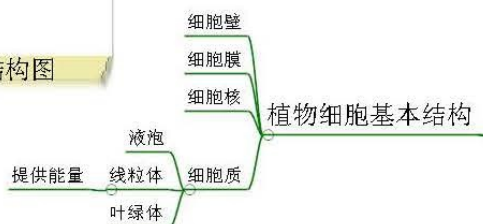


了解生物圈

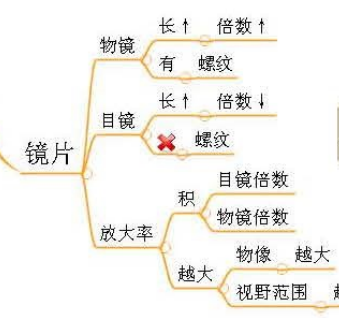
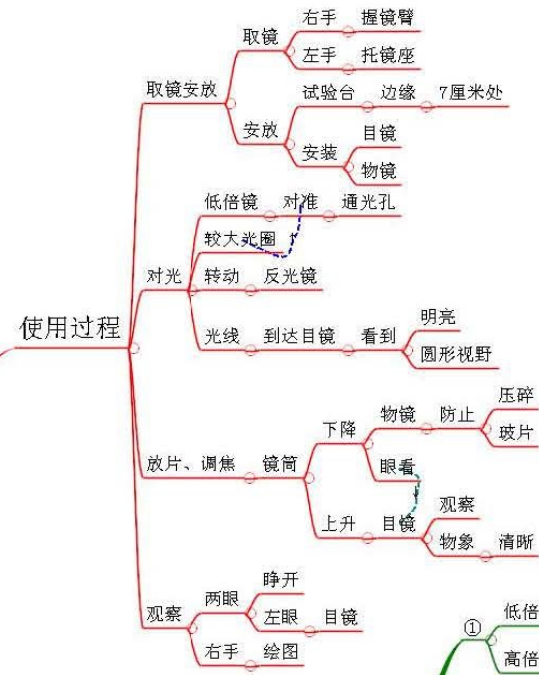




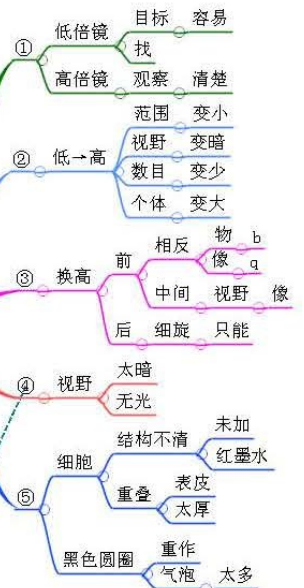
植物细胞结构图



显微镜使用及植物细胞



显微镜 注意事项

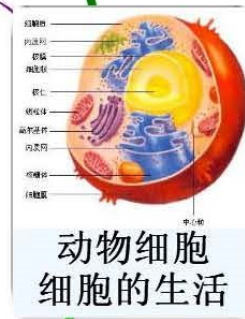
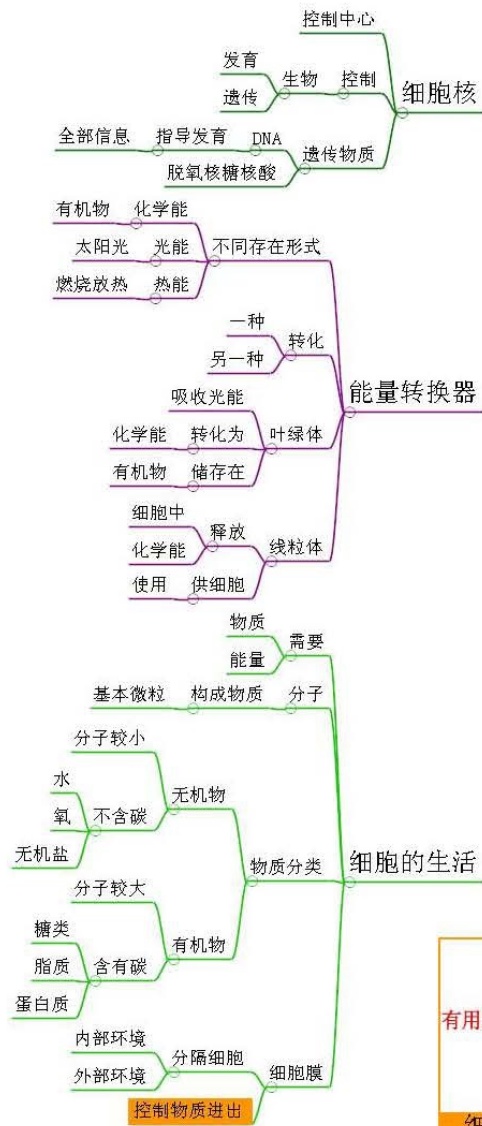


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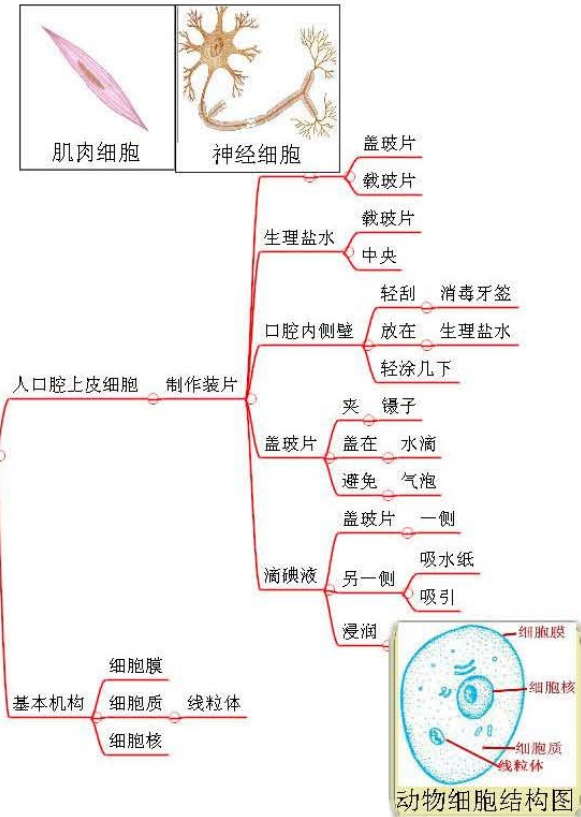
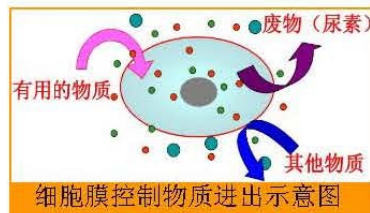
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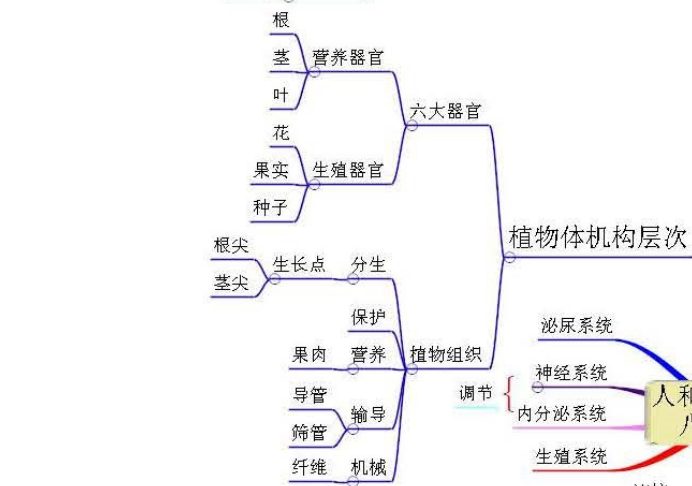
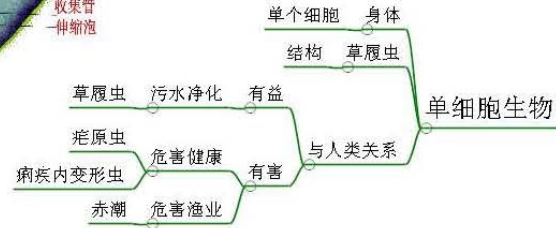
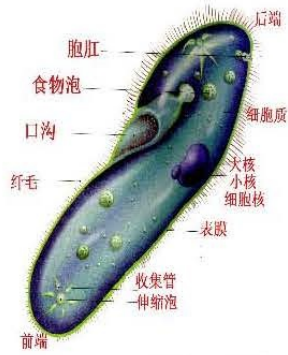


动物细胞 细胞的生活



细胞是构成生物体的基本单位

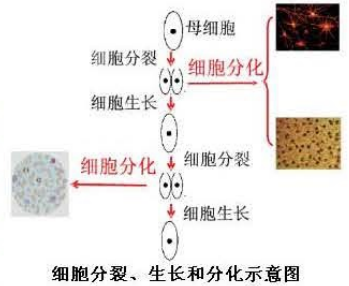
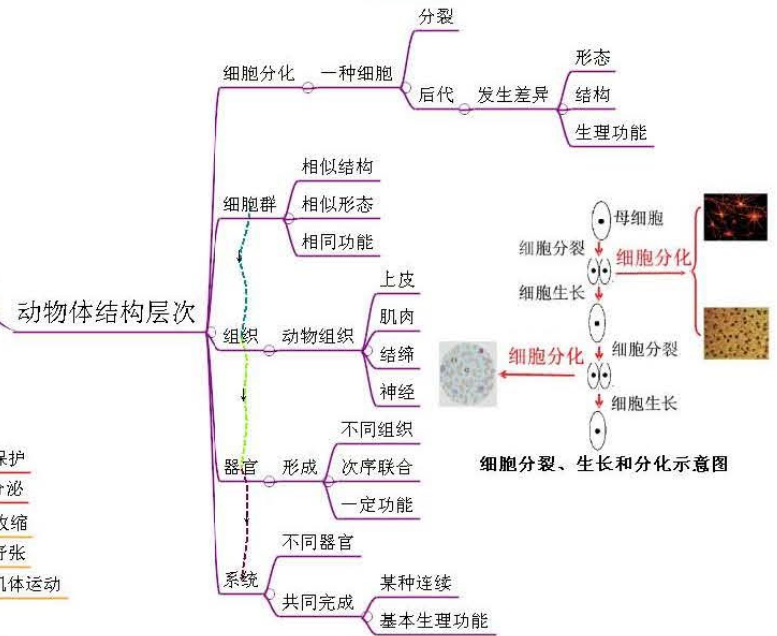
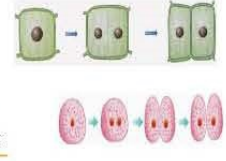
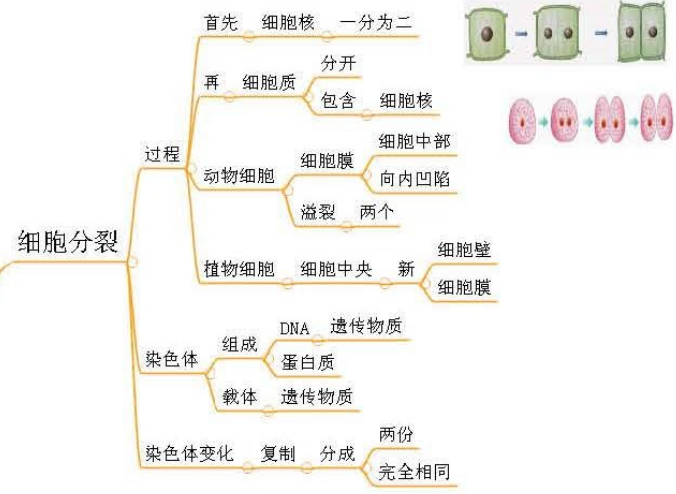
细胞的生活是物质、能量和信息变化的统一



植物 细胞 → 分化 → 组织 → 器官 → 植物体

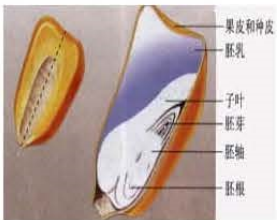
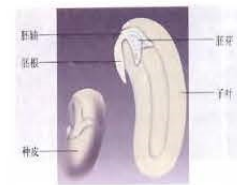
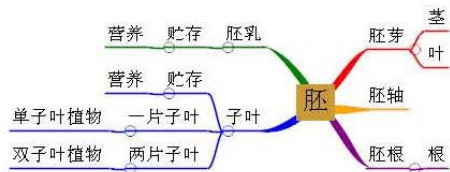


细胞怎样构成生物体



细胞分裂、生长和分化示意图

动物 细胞 → 分化 → 组织 → 器官 → 系统 → 个体



对比 藻类植物、苔藓植物和蕨类植物

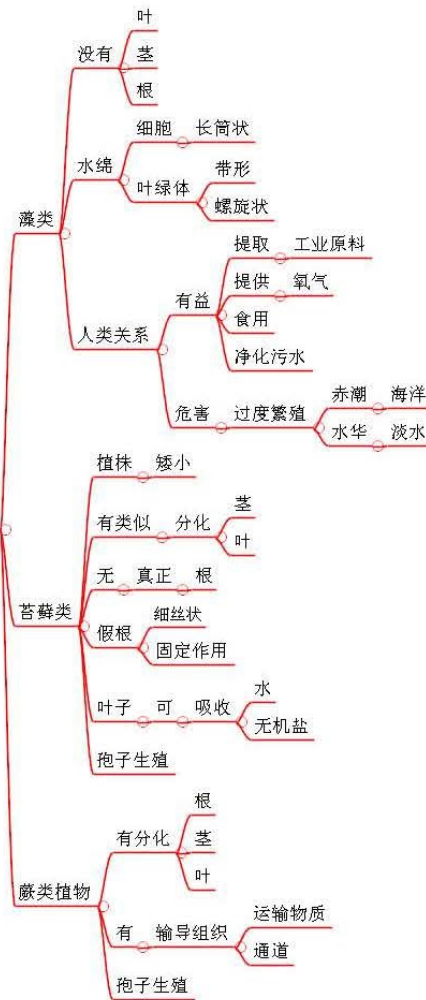
	藻类	苔藓	蕨类
环境	多数在水中	阴湿陆地	多数在潮湿陆地
不同结构	没有根、茎、叶分化有的单细胞	有茎、叶，假根，没有输导组织	有根、茎、叶，有输导组织
相同	都没有花、果实、种子，靠孢子繁殖。		

*苔藓植物可以作为环境污染的指示作物



生物圈中的绿色植物

藻类、苔藓和蕨类植物



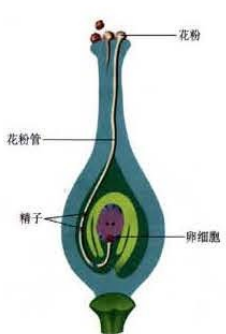
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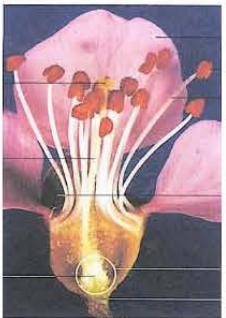
被子植物的一生



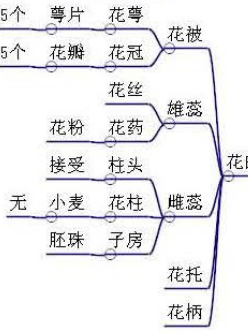
果实



种子



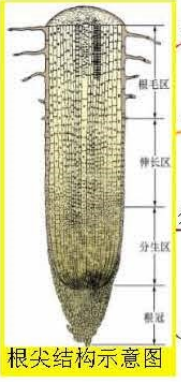
桃花



开花



胚珠

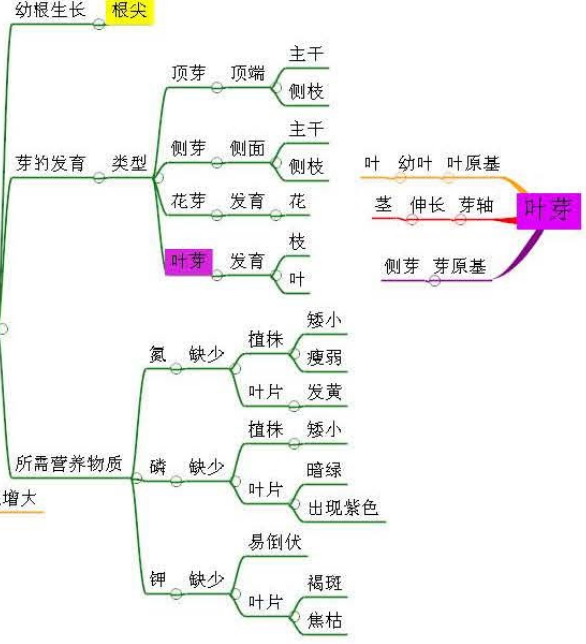


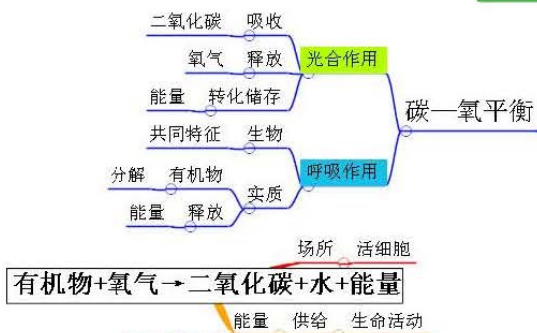
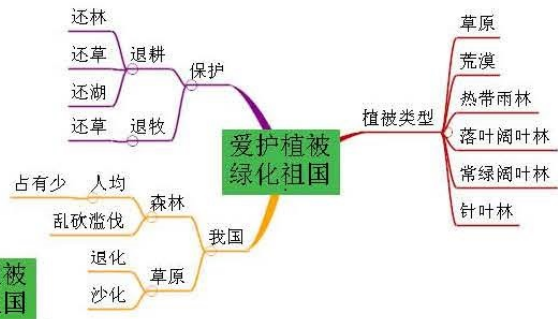
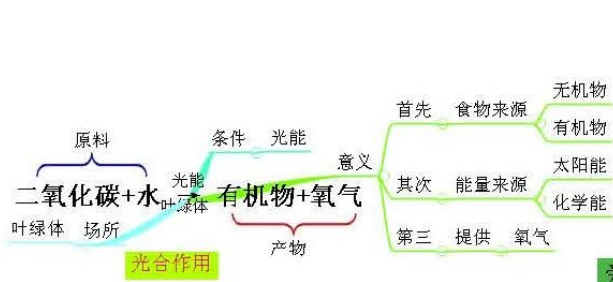
根尖结构示意图

种子的萌发

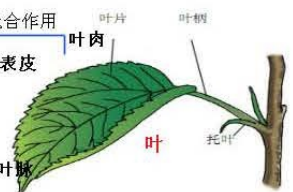
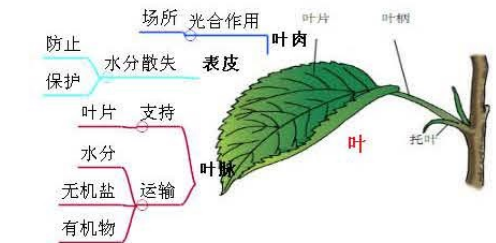
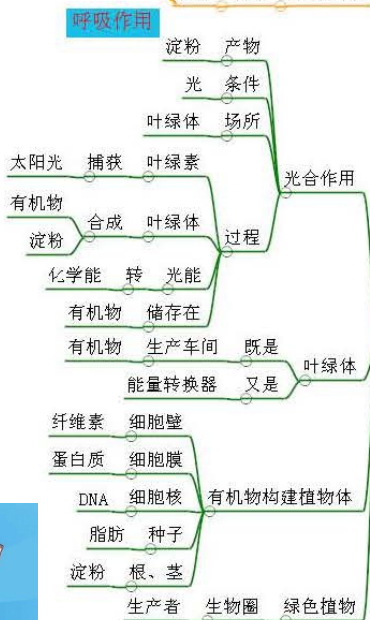
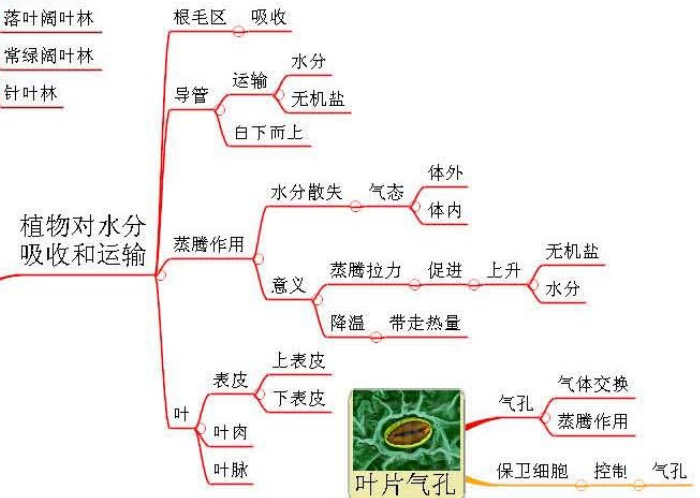


植株的生长





绿色植物与生物圈



心智图: 绿色植物与生物圈——
水循环 有机物制造者 碳氧循环
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