DNA/Replication Re-Looping

ON A SEPARATE PIECE OF PAPER

1. Please draw cells going through all 6 phases of the cell cycle we have discussed. Each cell must be labeled with the correct phase. Please also label the parts of the cell visible at that time of the phase. You must also give a brief explanation as to what is going on in each of the phases. (remember, interphase has 3 parts, only one cell is needed but all 3 parts of interphase must be explained).
2. Please draw one circle representing the parent cell. It must have 4 chromatids (each in a different color). Below the parent cell draw arrows to the daughter cells. Inside the daughter cells please draw the chromatids that would be represented after mitosis. Please use which colors would be necessary to depict the chromatids remaining after DNA replication and miotic division.
3. Please draw a DNA model using the code below. It should be colored and look a lot like a ladder (think paper model).

Colors: Phosphate – Purple Deoxyribose Sugar – Blue

Hydrogen Bonds – Black Adenine – Green Thymine – Orange

Cytosine – Red Guanine – Orange

DNA Code: ATA GGT CAC TGT TTT AGG

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