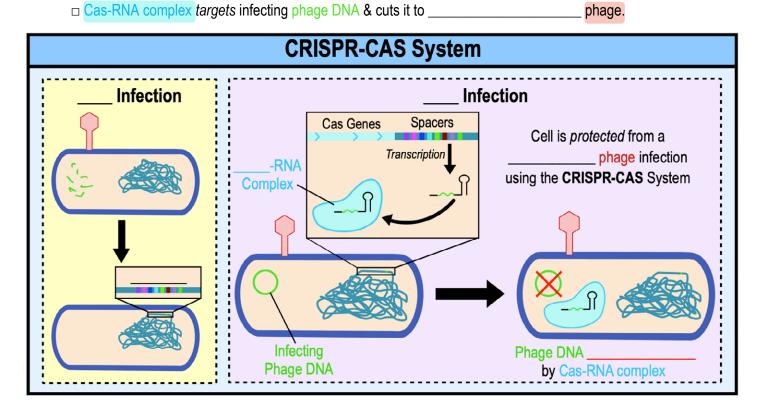
CONCEPT: CRISPR CAS

•CAS System: bacterial cell defense mechanism against various phage infections.
□ CRISPR stands for:lusters ofegularlynterspersedhortalindromicepeats.
• Protects cell from infections it once encountered by storing pieces of DNA in the chromosome called space.
□ Protein complex in the cell phage DNA into fragments.
□ Phage DNA fragments in the chromosome act as a record of <i>previous</i> phage infections.
●During a phage infection, the cell the fragments of various phage DNA.
□ Transcribed RNA forms a complex with an enzyme (Cas).



PRACTICE: What is CRISPR?

- a) Sequences of bacterial DNA derived from viral DNA fragments.
- b) A gene editing tool.
- c) A bacterial defense mechanism against viral infections.
- d) All of the above.