

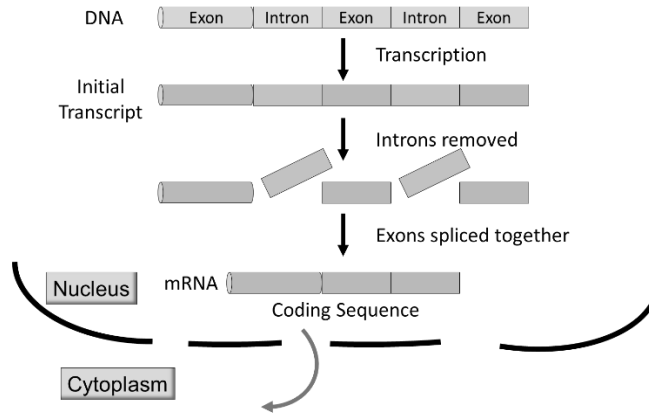
Name \_\_\_\_\_

## Introns and Exons

Use the images provided to answer the following questions. First, read the definitions below and study the diagram. If you do not understand what the diagram illustrates, ask Mrs. Napier.

**Introns** – pieces of mRNA that stay “IN” the nucleus

**Exons** – pieces of mRNA that “EXIT” the nucleus and are EXpressed as a trait through protein synthesis



**Image 1:**

1. What pattern are the introns? \_\_\_\_\_
2. What pattern are the exons? \_\_\_\_\_
3. Which of these (intron or exon) leave the nucleus to be translated into a protein? \_\_\_\_\_

**Image 2:**

1. What pattern are the introns? \_\_\_\_\_
2. What pattern are the exons? \_\_\_\_\_

**Image 3:**

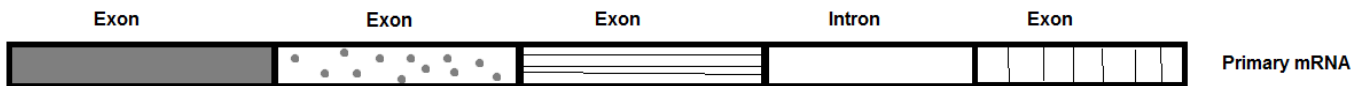
1. Do the introns or exons say “here”? \_\_\_\_\_
2. Which ones stay in the nucleus? \_\_\_\_\_

**Image 4:**

1. Why are introns spliced out of the mRNA? \_\_\_\_\_

**Image 5:**

1. How many pieces of this mRNA strand stayed in the nucleus? \_\_\_\_\_
2. Which pieces (introns or exons) left the nucleus? \_\_\_\_\_



Circle the mature mRNA strand that would leave the nucleus based on the primary mRNA above?

