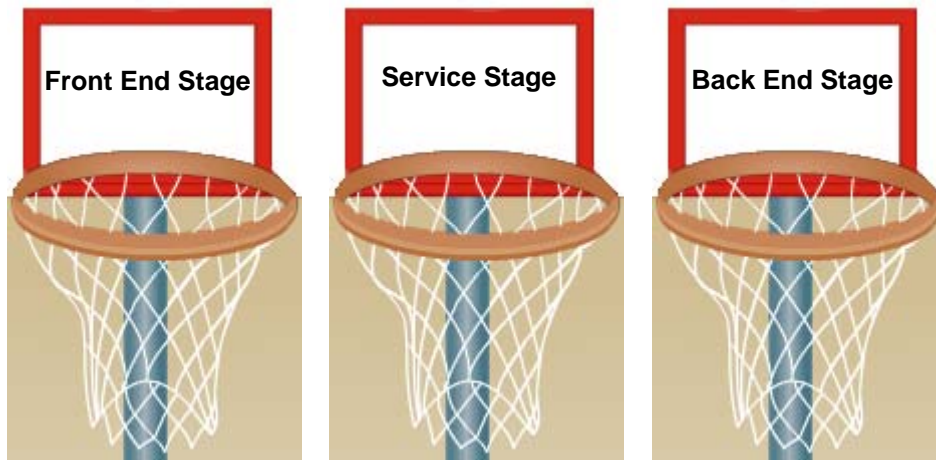


## Bucket Game: The Nuclear Fuel Cycle

**Directions:** Classify each item in the appropriate basket category.



### Items

1. begins when fuel assemblies are placed in the reactor
2. includes the transportation of nuclear wastes
3. includes the disposal of spent fuel
4. the time during which fuel assemblies are in use
5. includes the mining of uranium
6. includes the reprocessing of spent fuel
7. includes the enrichment of yellowcake

## Answers

1. begins when fuel assemblies are placed in the reactor: Service Stage

Correct Feedback: The service stage begins when fuel assemblies are placed in the nuclear reactor.

Incorrect Feedback: The service stage begins when fuel assemblies are placed in the nuclear reactor.

2. includes the transportation of nuclear wastes: Back End Stage

Correct Feedback: The back end stage includes the transportation of nuclear wastes.

Incorrect Feedback: The back end stage includes the transportation of nuclear wastes.

3. includes the disposal of spent fuel: Back End Stage

Correct Feedback: The back end stage includes the disposal of spent fuel.

Incorrect Feedback: The back end stage includes the disposal of spent fuel.

4. the time during which fuel assemblies are in use: Service Stage

Correct Feedback: The service stage is the time in which fuel assemblies are in use.

Incorrect Feedback: The service stage is the time in which fuel assemblies are in use.

5. includes the mining of uranium: Front End Stage

Correct Feedback: The front end stage includes the mining of uranium.

Incorrect Feedback: The front end stage includes the mining of uranium.

6. includes the reprocessing of spent fuel: Back End Stage

Correct Feedback: The back end stage includes the reprocessing of spent fuel.

Incorrect Feedback: The back end stage includes the reprocessing of spent fuel.

7. includes the enrichment of yellowcake: Front End Stage

Correct Feedback: The front end stage includes the enrichment of yellowcake.

Incorrect Feedback: The front end stage includes the enrichment of yellowcake.