1. Apache Airflow pipelines are built on four main principles. Which of the following principles include parameterization?

    ○ Extensible

    ○ Dynamic

    ⦿ Lean and explicit

    ○ Scalable

1 / 1 point

> ✓ **Correct**
> Correct, airflow pipelines are lean and explicit. Parameterization is built into its core using the powerful Jinja templating engine.

2. Which of the following Apache Airflow use cases involves coordination of data in data warehouses?

    ○ Scheduling tool

    ○ Define machine learning pipeline dependencies

    ○ Decoupled batch processes

    ⦿ Orchestrate SQL transformation in data warehouses

1 / 1 point

> ✓ **Correct**
> Correct, the Onefootball company used Airflow to orchestrate SQL transformation in their data warehouses.

3. Apache Airflow DAGs are a python script consisting of logical blocks. Which of the following logical blocks might use the 'from airflow import DAG' command?

    ○ DAG arguments

    ○ Task pipeline

    ○ DAG definition

    ⦿ Library imports

1 / 1 point

> ✓ **Correct**
> Correct, this command imports the DAG module from the Airflow collection.

4. Sensors are a class of DAG operators. Which is another type of operator that defines DAG tasks?

    ○ Email

    ○ Python

    ○ Bash

    ⦿ All of the above

1 / 1 point

> ✓ **Correct**
> Correct, email, Bash, and Python are other types of operators that define DAG tasks.

5. Which of the following advantages of Apache Airflow expressing workflows as code enables Git to track them?   1 / 1 point

○ Testable

○ Collaborative

○ Maintainable

◉ Versionable

✓ **Correct**
Correct, code revisions are easily tracked by version control systems like Git.

6. The 'Task Instance Context Menu' can be accessed from any of the DAG views that display what?   1 / 1 point

○ Details

○ Tree view

○ Gantt

◉ Task instances

✓ **Correct**
Correct, any view that displays the task instances for your DAG has a link to the Task Instance Context Menu.

7. The final block in your Airflow pipeline script is where you specify the dependencies for your workflow. How do you specify the order of task 1 and task 2?   1 / 1 point

○ >

◉ >>

○ >=

○ //

✓ **Correct**
Correct, the double 'greater than' notation specifies that task two is downstream from task one, so task 1 runs first.

8. Which block specifies the DAG start date?   1 / 1 point

○ Task pipeline

○ Task definitions

◉ DAG arguments

○ DAG definition

✓ **Correct**
Correct, this block is where you list the default DAG arguments like the start date, owner, and number of times it should keep trying if it failing.

9. Which of the following Airflow metrics could fluctuate?

1 / 1 point

○ Timers

◉ Gauges

○ Counters

○ None, they all can increase

✓ **Correct**
Correct, these metrics may fluctuate as they record the number of currently running tasks and DAG bas sizes.

10. Which of the following Apache Airflow basic components serves the interactive UI?

1 / 1 point

○ Executor

○ Scheduler

◉ Web Server

○ DAG directory

✓ **Correct**
Correct, the web server serves Airflow's powerful interactive User Interface.