```
engineering_approaches = {
    "Instance 1: Bulb": {
        "Comparative trial: equal": [
            "Attribute 1: 1 bulb",
            "Attribute 2: 2 bulbs"
        ],
        "Comparative trial: different": ["Attribute 1: 1 bulb vs. 2 bulbs"],
    },
    "Instance 2: Battery Voltage": {
        "Comparative trial: equal": [],
        "Comparative trial: different": [],
    },
    "Instance 3: Resistance": {
        "Comparative trial: equal": [
            "Attribute 1: 1 bulb",
            "Attribute 2: 2 bulbs different value",
            "Attribute 3: 2 bulbs (or 1 vs. 2) same value",
            "Attribute 4: 2 bulbs different value with changed position",
        ],
        "Comparative trial: different": [
            "Attribute 1: 1 bulb or 1 vs. 2 bulbs",
            "Attribute 2: 2 bulbs"
        ],
    },
    "Instance 4: Ammeter": {
        "Comparative trial: equal": [
            "Attribute 1: on/after/before 1 or 2 bulb",
            "Attribute 2: on high/low of 2 bulbs"
        ],
        "Comparative trial: different": [
            "Attribute 1: before vs. after 1 or 2 bulbs",
            "Attribute 2: on high vs. low of 2 bulbs"
        ],
    },
    Instance 5: Voltmeter": {
        "Comparative trial: equal": [
            "Attribute 1: across 1 or 2 bulbs or battery",
            "Attribute 2: across high/low resistance of 2 bulbs"
        ],
        "Comparative trial: different": [
            "Attribute 1: across high vs. low resistance of 2 bulbs (or 1 vs. 2)",
            "Attribute 2: across high vs. low resistance of 2 bulbs vs. battery",
        ]
    }
}
```