

# Enhanced Teacher API Test Payloads

This document contains comprehensive test payloads for testing all routes in the Enhanced Teacher API. Each section includes the endpoint, HTTP method, sample payload (if required), and expected response.

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## Create Teacher

**Endpoint:** `/enhanced-teacher/`

**Method:** `POST`

**Request Payload:**



```
{
  "name": "Dr. Richard Feynman",
  "title": "Professor",
  "avatar_url": "https://example.com/avatars/feynman.jpg",
  "personality": {
    "primary_traits": ["analytical", "humorous", "creative"],
    "teaching_style": "socratic",
    "formality_level": "casual",
    "question_frequency": "high",
    "encouragement_level": "high",
    "response_length": "moderate",
    "use_examples": true,
    "use_analogies": true,
    "patience_level": "high",
    "humor_usage": "frequent",
    "signature_phrases": [
      "The key is to understand, not memorize",
      "Let me show you a fascinating example",
      "What would happen if...?"
    ],
    "empathy_level": "high"
  },
  "specialization": {
    "primary_domain": "Physics",
    "specializations": ["Quantum Mechanics", "Particle Physics", "Physics Education"],
    "min_difficulty": "beginner",
    "max_difficulty": "expert",
    "can_create_exercises": true,
    "can_grade_work": true,
    "can_create_curriculum": true,
    "external_resources": [
      "Feynman Lectures on Physics",
      "Six Easy Pieces",
      "QED: The Strange Theory of Light and Matter"
    ]
  },
  "adaptation": {
    "adapts_to_learning_style": true,
    "pace_adjustment": true,
    "difficulty_scaling": true,
    "remembers_context": true,
    "tracks_progress": true
  },
  "system_prompt_template": "You are {teacher_name}, {title} of Physics.\n\n{personality}\n\ndon
}
```

## Expected Response:

json

```
{
  "id": "some-generated-uuid",
  "name": "Dr. Richard Feynman",
  "title": "Professor",
  "avatar_url": "https://example.com/avatars/feynman.jpg",
  "personality": {
    // Personality object as provided in request
  },
  "specialization": {
    // Specialization object as provided in request
  },
  "adaptation": {
    // Adaptation object as provided in request
  },
  "system_prompt_template": "You are {teacher_name}, {title} of Physics...",
  "created_at": "2025-06-09T12:00:00.000Z",
  "updated_at": "2025-06-09T12:00:00.000Z",
  "created_by": null,
  "is_active": true,
  "total_sessions": 0,
  "average_rating": null
}
```

## Get Teacher

**Endpoint:** `/enhanced-teacher/{teacher_id}`

**Method:** `GET`

### Example:

GET /enhanced-teacher/abcd1234-5678-efgh-9012-ijklmnopqrst

## Expected Response:

json

```
{
  "id": "abcd1234-5678-efgh-9012-ijklmnopqrst",
  "name": "Dr. Richard Feynman",
  "title": "Professor",
  "avatar_url": "https://example.com/avatars/feynman.jpg",
  "personality": {
    // Personality object
  },
  "specialization": {
    // Specialization object
  },
  "adaptation": {
    // Adaptation object
  },
  "system_prompt_template": "You are {teacher_name}, {title} of Physics...",
  "created_at": "2025-06-09T12:00:00.000Z",
  "updated_at": "2025-06-09T12:00:00.000Z",
  "created_by": null,
  "is_active": true,
  "total_sessions": 0,
  "average_rating": null
}
```

## Update Teacher

**Endpoint:** `/enhanced-teacher/{teacher_id}`

**Method:** `PUT`

**Request Payload:**

json

```
{
  "name": "Dr. Richard P. Feynman",
  "personality": {
    "primary_traits": ["analytical", "humorous", "creative"],
    "teaching_style": "practical",
    "humor_usage": "frequent",
    "signature_phrases": [
      "The key is to understand, not memorize",
      "Let me show you a fascinating example",
      "What would happen if...?",
      "Physics is like a good detective story"
    ]
  },
  "specialization": {
    "external_resources": [
      "Feynman Lectures on Physics",
      "Six Easy Pieces",
      "QED: The Strange Theory of Light and Matter",
      "Surely You're Joking, Mr. Feynman!"
    ]
  }
}
```

**Expected Response:**

json

```
{
  "id": "abcd1234-5678-efgh-9012-ijklmnopqrst",
  "name": "Dr. Richard P. Feynman",
  "title": "Professor",
  "avatar_url": "https://example.com/avatars/feynman.jpg",
  "personality": {
    // Updated personality object
  },
  "specialization": {
    // Updated specialization object
  },
  "adaptation": {
    // Adaptation object (unchanged)
  },
  "system_prompt_template": "You are {teacher_name}, {title} of Physics...",
  "created_at": "2025-06-09T12:00:00.000Z",
  "updated_at": "2025-06-09T12:30:00.000Z",
  "created_by": null,
  "is_active": true,
  "total_sessions": 0,
  "average_rating": null
}
```

## Delete Teacher

**Endpoint:** `/enhanced-teacher/{teacher_id}`

**Method:** `DELETE`

### Example:

`DELETE /enhanced-teacher/abcd1234-5678-efgh-9012-ijklmnopqrst`

### Expected Response:

json

```
{
  "message": "Enhanced teacher abcd1234-5678-efgh-9012-ijklmnopqrst deleted successfully"
}
```

## List Teachers

**Endpoint:** `/enhanced-teacher/`

**Method:** `GET`

## Example:

GET /enhanced-teacher/

## Expected Response:

```
json

[
  {
    "id": "abcd1234-5678-efgh-9012-ijklmnopqrst",
    "name": "Dr. Richard P. Feynman",
    "title": "Professor",
    // ... remaining teacher properties
  },
  {
    "id": "wxyz9876-5432-abcd-1234-efghijklmnop",
    "name": "Dr. Elizabeth Chen",
    "title": "Professor",
    // ... remaining teacher properties
  }
]
```

## Search Teachers

**Endpoint:** `/enhanced-teacher/search`

**Method:** `GET`

## Example Queries:

GET /enhanced-teacher/search?domain=Physics&teaching\_style=socratic&page=1&limit=10

GET /enhanced-teacher/search?

difficulty\_level=beginner&traits=encouraging&traits=patient&query=math

## Expected Response:



```
json
{
  "teachers": [
    {
      "id": "abcd1234-5678-efgh-9012-ijklmnopqrst",
      "name": "Dr. Richard P. Feynman",
      // ... remaining teacher properties
    }
  ],
  "pagination": {
    "total": 1,
    "page": 1,
    "limit": 10,
    "total_pages": 1
  }
}
```

## Get Teacher by Domain

**Endpoint:** `/enhanced-teacher/domain/{domain}`

**Method:** `GET`

### Example:

```
GET /enhanced-teacher/domain/Physics
```

### Expected Response:

```
json
{
  "id": "abcd1234-5678-efgh-9012-ijklmnopqrst",
  "name": "Dr. Richard P. Feynman",
  "title": "Professor",
  // ... remaining teacher properties
}
```

## Add Teacher Rating

**Endpoint:** `/enhanced-teacher/{teacher_id}/rating`

**Method:** `POST`

### Request Payload:

```
json

{
  "rating": 4.8
}
```

## Expected Response:

```
json

{
  "message": "Rating added successfully for teacher abcd1234-5678-efgh-9012-ijklmnopqrst"
}
```

## Increment Session

**Endpoint:** `/enhanced-teacher/{teacher_id}/increment-session`

**Method:** `POST`

## Example:

`POST /enhanced-teacher/abcd1234-5678-efgh-9012-ijklmnopqrst/increment-session`

## Expected Response:

```
json

{
  "message": "Session count incremented for teacher abcd1234-5678-efgh-9012-ijklmnopqrst"
}
```

## Generate System Prompt

**Endpoint:** `/enhanced-teacher/{teacher_id}/generate-prompt`

**Method:** `POST`

## Request Payload:

json

```
{
  "context": {
    "student_name": "Alice",
    "current_topic": "Wave-Particle Duality",
    "difficulty": "intermediate",
    "previous_topics": ["Quantum States", "Probability Waves"],
    "learning_style": "visual"
  }
}
```

## Expected Response:

json

```
{
  "teacher_id": "abcd1234-5678-efgh-9012-ijklmnopqrst",
  "name": "Dr. Richard P. Feynman",
  "system_prompt": "You are Dr. Richard P. Feynman, Professor of Physics.\n\nYou have these per
```



## Create Default Teachers

**Endpoint:** `/enhanced-teacher/create-defaults`

**Method:** `POST`

### Example:

`POST /enhanced-teacher/create-defaults`

## Expected Response:

json

```
{
  "message": "Default teachers created",
  "teachers": [
    {
      "id": "math-prof-uuid",
      "name": "Dr. Elizabeth Chen",
      // ... remaining teacher properties
    },
    {
      "id": "coding-mentor-uuid",
      "name": "Alex Rivera",
      // ... remaining teacher properties
    }
  ],
  "count": 2
}
```

## Get All Styles

**Endpoint:** `/enhanced-teacher/styles/all`

**Method:** `GET`

### Example:

GET /enhanced-teacher/styles/all

### Expected Response:

json

```
{
  "teaching_styles": [
    {"value": "socratic", "label": "Socratic"},
    {"value": "explanatory", "label": "Explanatory"},
    {"value": "practical", "label": "Practical"},
    {"value": "theoretical", "label": "Theoretical"},
    {"value": "adaptive", "label": "Adaptive"}
  ],
  "personality_traits": [
    {"value": "encouraging", "label": "Encouraging"},
    {"value": "patient", "label": "Patient"},
    {"value": "challenging", "label": "Challenging"},
    {"value": "humorous", "label": "Humorous"},
    {"value": "formal", "label": "Formal"},
    {"value": "casual", "label": "Casual"},
    {"value": "analytical", "label": "Analytical"},
    {"value": "creative", "label": "Creative"}
  ],
  "difficulty_levels": [
    {"value": "beginner", "label": "Beginner"},
    {"value": "intermediate", "label": "Intermediate"},
    {"value": "advanced", "label": "Advanced"},
    {"value": "expert", "label": "Expert"}
  ]
}
```