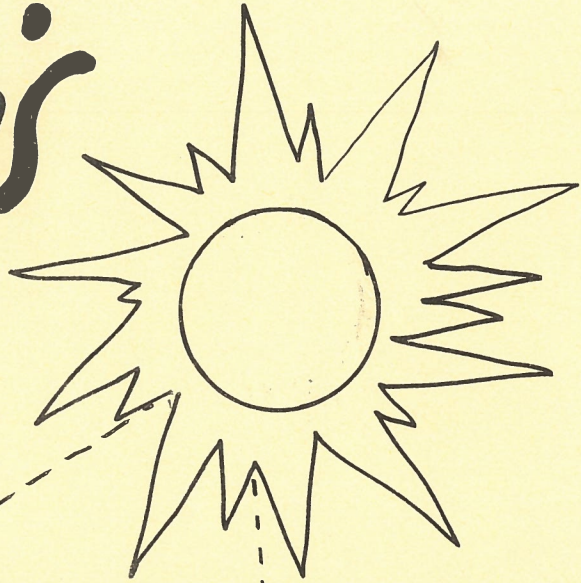
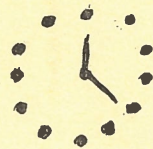
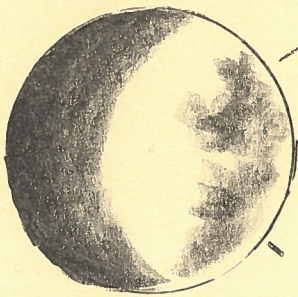


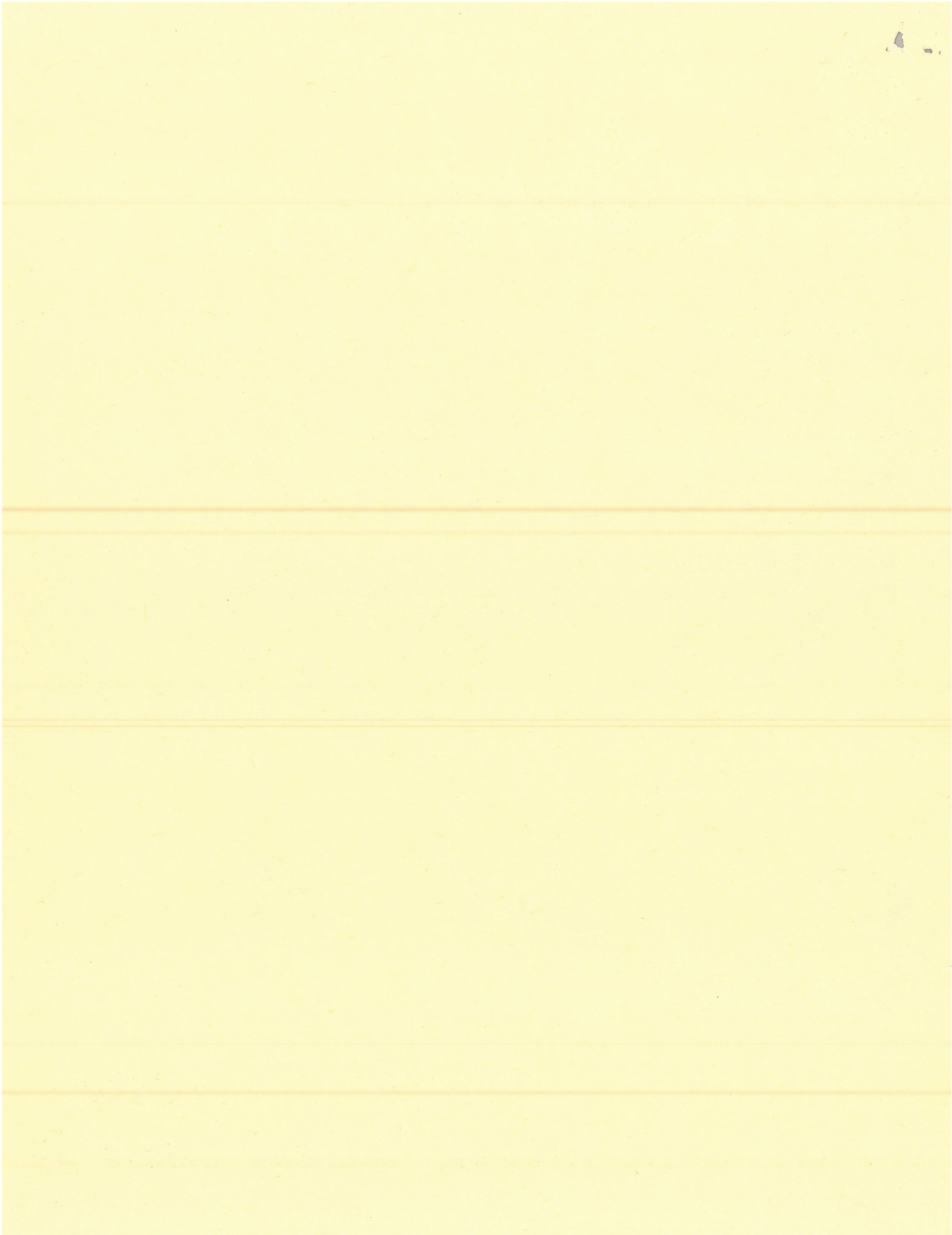
Einstein's

"Theory of
Relativity"



$$E=mc^2$$

HUMANITIES: MONUMENTS OF CULTURE
DANBURY STATE TEACHERS COLLEGE SPRING '59



Monuments of Culture

Spring, 1959

Textbooks, required for Monument 4 - Einstein, Relativity:

(You are required to purchase the following texts. Once again, block assignments have been made; you are advised to look through your syllabus thoroughly, so that you will know in advance when large assignments are due, when outside reading must be completed, and when term papers are due.

Lincoln Barnett, The Universe and Dr. EinsteinJames Coleman, Relativity for the LaymanJames B. Conant, On Understanding ScienceRoger Burlingame, Machines that Built AmericaTaffel, Graphic Survey of PhysicsRitchie Calder, Science in Our LivesThe Education of Henry AdamsAlfred Barr, What Is Modern Painting?Sarah Newmeyer, Enjoying Modern ArtHoward and Lyons, Modern MusicFred Hoyle, The Nature of the UniverseExistentialism from Dostoevsky to Sartre, ed. Walter KaufmannAssigned Reading Texts in Library Reserve for Monument 4:Arthur Fleming, Arts and IdeasG. Flanagan, How to Understand Modern ArtAaron Copland, What to Listen for in MusicFrederick Hoffmann, The TwentiesMax Lerner, America As a Civilization

The following books are also on Library Reserve to provide you with opportunities for further study:

Kline, Mathematics in Western Culture

Gamow, One Two Three...Infinity

Whitehead, Science and the Modern World

Larkin, Art and Life in America

Jeans, The Growth of Physical Science

Glasstone, Sourcebook of Atomic Energy

Jeans, New Background of Science

Margenau, The Nature of Physical Reality

Eddington, The Nature of the Physical World

Einstein, Relativity; The Special and the General Theory

Jeans, The Mysterious Universe

New Worlds of Modern Science, ed. Leonard Engel

Sullivan, The Limitations of Science

Shapley, Treasury of Science

First Year College Chemistry textbooks

Read, Philosophy of Modern Art

Kepes, The Language of Vision

Kepes, The New Landscape

Maholy-Nagy, Vision in Motion

Museum of Modern Art, Bauhaus

Le Corbusier, The Marseilles Block

Bauer, Twentieth-Century Music

Stevens, The Life and Works of Bela Bartok

Curt Sachs, The Commonwealth of Art

Wright, Frank Lloyd, Autobiography

Ransome, Gods Without Thunder

Cassirer, An Essay on Man

- Wightman, The Growth of Scientific Ideas
- Oppenheimer, Science and the Common Understanding
- Forbes, Man the Maker
- Hoyle, Frontiers of Astronomy
- Clarke, The Exploration of Space
- Bergaust and Beller, Satellite
- Marshak, The World in Space
- Leonard, Flight Into Space
- Smart, Origin of the Earth
- Gamow, Birth and Death of the Sun
- Gamow, Biography of the Earth
- Gamow, Creation of the Universe
- Scientific American, The Universe
- Scientific American, The New Astronomy
- Scientific American Reader
- Jones, Life on Other Worlds
- Bernhard, Bennett and Rice, New Handbook of the Heavens
- Franz Kafka, The Castle, The Trial, Amerika, Selected Short Stories
- Rilke, Duino Elegies, Notebooks of Malte Laurids Brigge, Selected Poems
- Sartre, Age of Reason, Troubled Sleep, No Exit and Three Other Plays
- Camus, The Fall, The Plague, The Stranger
- Essays in Philosophy, ed. Houston Peterson
- Nietzsche, The Birth of Tragedy, The Genealogy of Morals, Beyond Good and Evil,
Thus Spake Zarathustra
- Kierkegaard, Fear and Trembling, The Sickness Unto Death
- Barrett, Irrational Man
- Durant, The Story of Philosophy
- Jaspers, Man in the Modern Age
- Heinemann, Existentialism and the Modern Predicament

Buber, Between Man and Man

Four Existentialist Theologians, ed. Will Herberg

The Age of Analysis, Ed. Morton White

Camus, The Myth of Sisyphus and Other Essays

Macquet, Albert Camus; The Invincible Summer

Krutch, The Modern Temper

Kronenberger, Company Manners

MONUMENTS OF CULTURE

Syllabus - Spring, 1959

Monument IV - Albert Einstein, Relativity; the Special and General Theory

Tuesday, April 7 - Auditorium

Class Activity:

Lecture: Recorso; the Beginnings of the Twentieth Century - Mr. Timmins.

Assignment:

See list of textbooks and assigned reading texts.

Opportunities for further study:

See all preceding Syllabi.

Wednesday, April 8, - Auditorium.

Class activity:

Lecture: The background of Relativity and Planck's Quantum Theory - Dr. Rafter.

Assignment:

Barnett, The Universe and Dr. Einstein, Chs. 1-5.

Coleman, Relativity for the Layman, Chs. 1, 2.

Conant, On Understanding Science, pp. 80-141.

Opportunities for further study:

Kline, Mathematics in Western Culture, Chs. 1, 14 - Library Reserve.

Gamow, One Two Three ... Infinity, pp. 93-100, 137-146 - Library Reserve.

Alfred North Whitehead, Science and the Modern World - Library Reserve.

Friday, April 10 - Classrooms.

Class Activity:

Discussion: The New World of the Twentieth Century; the Beginnings - Section leaders.

Assignment:

Burlingame, Machines That Built America, Chs. 1, 12, 13.

Opportunities for further study:

Larkin, Art and Life in America, pp. 321-367 - Library Reserve.

The Education of Henry Adams, Chs. 26 ff.

Monday, April 13 - Auditorium.

Class activity:

Lecture: Einstein and Relativity - Dr. Rafter/

Assignment:

Barnett, Universe and Dr. Einstein, Chs. 6-12.

Coleman, Relativity for the Layman, Chs. 3-5.

Opportunities for further study:

Kline, Mathematics in Western Culture, Chs. 12, 13, 16, 17 - Library Reserve.

Gamow, One Two Three ... Infinity, Chs. 3-5 - Library Reserve.

Jeans, The Growth of Physical Science, Ch. 8 - Library Reserve.

Glasstone, Sourcebook of Atomic Energy, Ch. 3 - Library Reserve.

Jeans, New Background of Science - Library Reserve.

Tuesday, April 14 -- Classrooms.

Class activity:

Discussion: Einstein, Relativity, the Special and General Theory, - Section leaders.

Assignment:

Same as Monday, April 13.

Opportunities for further study:

Margenau, The Nature of Physical Reality - Library Reserve.

Eddington, The Nature of the Physical World - Library Reserve.

Albert Einstein, Relativity: The Special and the General Theory - Library Res.

Wednesday, April 15 -- Classrooms.

Class activity:

Discussion: Einstein; Relativity - Section leaders.

Assignment:

Same as Monday, April 13.

Opportunities for further study:

Jeans, The Mysterious Universe - Library Reserve.

Bertrand Russell, "Space-Time," New Worlds of Modern Science - Library Res.

J.W.N. Sullivan, The Limitations of Science - Library Reserve.

Friday, April 17 - Auditorium.

Class activity:

Lecture: $E=mc^2$; The nature of the atom - Dr. Rafter.

Assignment:

Taffel, Graphic Survey of Physics, Ch. 27.

Calder, Science in Our Lives, pp. 64-90.

Adams, "The Grammar of Science," in The Education of Henry Adams.

Opportunities for further study:

Shapley, Treasury of Science, Part 6 (Atomic Fission) - Library Reserve.

Glasstone, Sourcebook of Atomic Energy, Chs. 2, 4, 5, 6, 9, 10, 13, 14, 18 - Library Reserve.

First Year College Chemistry textbooks - Library Reserve.

Monday, April 20 - Auditorium.

Class activity:

Lecture with slides: Constructivism - Mr. Timmins.

Assignment:

Fleming, Arts and Ideas, pp. 746-764 - Library Reserve.

Barr, What Is Modern Painting?, pp. 26-33.

Newmeyer, Enjoying Modern Art, pp. 141-156.

Edna St. Vincent Millay

"Euclid alone has looked on beauty bare.
Let all who prate of Beauty hold their peace,
And lay them prone upon the earth and cease
To ponder on themselves, the while they stare
At nothing, intricately drawn nowhere
In shapes of shifting lineage; let geese
Gabble and hiss, but heroes seek release
From dusty bondage into luminous air.

O blinding hour, O holy, terrible day,
 When first the shaft into his vision shone
 Of light anatomized! Euclid alone
 Has looked on Beauty bare. Fortunate they
 Who, though once only and then but far away,
 Have heard her massive sandal set on stone."

Opportunities for further study:

Read, "Constructivism," Philosophy of Modern Art - Library Reserve.

Kepes, The Language of Vision - Library Reserve.

The New Landscape - Library Reserve.

Maholy-Nagy, Vision in Motion - Library Reserve.

Tuesday, April 21 - Classrooms.

Class activity:

Discussion: Constructivism; Russian origins; Constructivist impact on culture - Section leaders.

Assignment:

Flanagan, How to Understand Modern Art, pp. 223-266 - Library Reserve.

Opportunities for further study:

Museum of Modern Art, Bauhaus - Library Reserve.

Larkin, Art and Life in America, pp. 321-461 - Library Reserve.

Wednesday, April 22 - Classrooms.

Class activity:

Discussion: the Bauhaus and Architecture; International Style vs. Frank Lloyd Wright's Organic Architecture - Section leaders.

Assignment:

Fleming, Arts and Ideas, pp. 742-746 - Library Reserve.

Newmeyer, Enjoying Modern Art, pp. 221-234.

Outline due; for paper due Friday, May 1 (see that entry).

Opportunities for further study:

Le Corbusier, The Marseilles Block - Library Reserve.

Museum of Modern Art, Bauhaus - Library Reserve.

Friday, April 24 - Auditorium.

Class activity:

Film: The Works of Alexander Calder (John Cage score).

Assignment:

Barr, What is Modern Painting?, pp. 5, 45-47.

Opportunities for further study:

See above.

Monday, April 27 - Auditorium.

Class activity:

Lecture and recordings: Constructivism in music; Schoenberg and Bartok - Dr. Ritscher.

Assignment:

Howard and Lyons, Modern Music, pp. 63-70, 78, 80.

Copland, What to Listen for in Music, Ch. 13, pp. 176-198. - Library Reserve.

Questions for study:

How does a composer achieve form in a short composition? in a longer one?

What is a sonata? What is sonata-allegro form?

Opportunities for further study:

Fleming, Arts and Ideas, pp. 717-722, 735-739 - Library Reserve.

Bauer, Twentieth-Century Music - Library Reserve.

Stevens, The Life and Works of Bela Bartok - Library Reserve.

Tuesday, April 28 - Classrooms.

Class activity:

Discussion: Gebrauchsmusik - Section leaders.

Hindemith recordings piped in.

Assignment:

Howard and Lyons, Modern Music, Ch. 9, pp. 96-103.

Question for study:

Does the concept of Gebrauchsmusik fill the needs of our society?

Opportunities for further study:

Curt Sachs, The Commonwealth of Art, pp. 192-195, 199-215, 290-301 - Library Res.

Wednesday, April 29 - Class rooms.

Class activity:

Discussion: Constructivism in music, art, architecture - Section leaders.

Recording of Frank Lloyd Wright piped in.

Assignment:

Make up your own assignment:

Opportunities for further study:

Frank Lloyd Wright, Autobiography - Library Reserve.

Friday, May 1 - Auditorium.

Class activity:

Lecture: Creativity in Art and Science - Mr. Edwards.

Assignment:

To be assigned

Paper due - 1000 words

Choose one of the following subjects:

- A. Explain what the word "relativity" means in all its applications, as it is used in Einstein's theory.
- B. What are the philosophical implications of the world view expressed in relativity theory and its later developments?
- C. Choosing either painting, sculpture, architecture or music of the type that may be called "constructivist," explain how it makes sense in a world of "relativity."

Opportunities for further study:

John Crowe Ransome, Gods Without Thunder - Library Reserve.

Cassirer, An Essay on Man - Library Reserve.

Shapley, Treasury of Science, pp. 3-47, 54-61, 147-54, 168-74, 228-34, 297-307, 638-54 - Library Reserve.

Wightman, The Growth of Scientific Ideas - Library Reserve.

Jeans, The Growth of Physical Science - Library Reserve.

Oppenheimer, Science and the Common Understanding - Library Reserve.

Forbes, Man the Maker - Library Reserve.

Monday, May 4 - Auditorium.

Class activity:

Lecture: Cosmogony and the Nature of the Universe - Dr. Rafter.

Assignment:

Hoyle, The Nature of the Universe, Chs. 1-7.

Barnett, Universe and Dr. Einstein, Chs. 13-15.

Coleman, Relativity for the Layman, Ch. 6.

Opportunities for further study:

Kline, Mathematics in Western Culture, Chs. 9, 10, 14 - Library Reserve.

Hoyle, Frontiers of Astronomy - Library Reserve.

Clarke, The Exploration of Space - Library Reserve.

Bergaust and Beller, Satellite - Library Reserve.

Marshak, The World in Space - Library Reserve.

Tuesday, May 5 - Classrooms.

Class activity:

Discussion: The Origin and Nature of the Universe - Section leaders.

Assignment:

Same as for Monday, May 4.

Hoffmann, The Twenties, pp. 240-249, 282-291 - Library Reserve.

Opportunities for further study:

Jeans, The Mysterious Universe - Library Reserve.

Leonard, Flight Into Space - Library Reserve.

Smart, Origin of the Earth - Library Reserve.

Gamow, Birth and Death of the Sun - Library Reserve.

Gamow, Biography of the Earth - Library Reserve.

Gamow, Creation of the Universe - Library Reserve.

Wednesday, May 6 - Classrooms.

Class activity:

Discussion: The Origin and Nature of the Universe - Section leaders.

Assignment:

Same as Monday, May 4.

Opportunities for further study:

Scientific American, The Universe - Library Reserve.

Scientific American, The New Astronomy - Library Reserve.

Scientific American Reader - Library Reserve.

Shapley, Treasury of Science, Part III - Library Reserve.

Jones, Life on Other Worlds - Library Reserve.

Bernhard, Bennett and Rice, New Handbook of the Heavens - Library Reserve.

Thursday, May 7 - Field Trip.

Class activity:

New York City- Planetarium; possibly Guggenheim Museum; possibly a play.

Details will be discussed later.

Friday, May 8 - Auditorium/

Class activity:

Lecture: Introduction to Existentialism - Dr. Lowe.

Assignment:

Existentialism from Dostoevsky to Sartre, ed. Walter Kaufmann, pp. 7-82.

You will also be required, during the next two weeks, to read one of the volumes of short stories, plays or novels listed in Opportunities, below. You will be required to submit a book report, in a prescribed form, on the book of your choice.

Opportunities for further study:

Franz Kafka, The Castle

The Trial

Amerika

Selected Short Stories

(ALL

Rainer Marie Rilke, Duino Elegies

(IN

Notebooks of Malte Laurids Brigge

Selected Poems

(Library

Jean Paul Sartre, Age of Reason

Troubled Sleep

No Exit and Three Other Plays

(Reserve.

Albert Camus, The Fall

The Plague

The Stranger

(or any other fictional works by these authors)

Monday, May 11 - Auditorium.

Class activity:

Lecture: Kierkegaard and Nietzsche - Mr. Anderson.

Assignment:

Kaufmann, Existentialism..., pp. 83-112.

Opportunities for further study:

Friedrich Nietzsche, "Aphorisms," Essays in Philosophy - Library Reserve.

Friedrich Nietzsche, The Birth of Tragedy and The Genealogy of Morals - Library Reserve.

Friedrich Nietzsche, Beyond Good and Evil - Library Reserve.

Friedrich Nietzsche, Thus Spake Zarathustra - Library Reserve.

Soren Keirkegaard, Fear and Trembling and The Sickness Unto Death - Library Reserve.

Tuesday, May 12 - Class rooms.

Class activity:

Discussion: Existentialism; the background - Section leaders.

Assignment:

Kaufmann, Existentialism..., pp. 113-130 .

Opportunities for further study:

William Barrett, Irrational Man; a Study in Existentialist Philosophy - Library Reserve.

Will Durant., The Story of Philosophy, Ch/ IX, "Friedrich Nietzsche" - Library Reserve.

Wednesday, May 13 - Classrooms.

Class activity:

Discussion: Existentialism - Section leaders.

Assignment:

Kaufmann, Existentialism..., pp. 131-205.

Opportunities for further study:

William Barrett, Irrational Man - Library Reserve.

Karl Jaspers, Man in the Modern Age - Library Reserve.

Friday, May 15 - Classrooms.

Class activity:

Discussion: Existentialism - Section leaders.

Assignment:

Kaufmann, Existentialism..., pp. 206-221.

Opportunities for further study:

F.H.Heinemann, Existentialism and the Modern Predicament - Library Reserve.

Monday, May 18 - Auditorium.

Class activity:

Lecture: Religious Existentialism; Martin Buber - Rabbi Jerome Malino.

Assignment:

Kaufmann, Existentialism..., pp. 222-270.

Opportunities for further study:

Martin Buber, Between Man and Man - Library Reserve.

Four Existentialist Theologians, ed. Will Herberg - Library Reserve.

Tuesday, May 19 - Classrooms.

Class activity:

Discussion: Existentialism - Section leaders.

Assignment:

Kaufmann, Existentialism..., pp. 270-316.

Opportunities for further study:

Jean Paul Sartre, "Existentialism," The Age of Analysis, ed. Morton White - Library Reserve.

Albert Camus, The Myth of Sisyphus and Other Essays - Library Reserve.

Albert Macquet, Albert Camus: The Invincible Summer - Library Reserve.

Wednesday, May 20 - No class.

Class activity:

Required attendance at Dramatons production of Thornton Wilder's The Skin of Our Teeth, either Tuesday, May 19, or Wednesday, May 20.

Opportunities for further study:

Thornton Wilder, The Skin of Our Teeth - Library Reserve.

Friday, May 22 - Auditorium.

Class activity:

Lecture: Cultural Lag - Miss Counts.

Assignment:

Lerner, America As a Civilization, Ch. IV, Sec. 6; Ch. IX, Sec. 8; Ch. X, Sec. 1-3. - Library Reserve.

Opportunities for further study:

Joseph Wood Krutch, The Modern Temper - Library Reserve.

Louis Kronenberger, Company Manners. - Library Reserve.

Week of May 25-29.

A syllabus, attempting to synthesize the four preceding units, will be prepared and issued to you in a few weeks. It will include an assigned project or final paper whose aim will also be to demonstrate the unity of the substance of all four units in terms of "Where Are We?"

