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Ford Rouge Factory Tour



Curriculum Connection Guide

(Aligned with the *Ultimate Wave Tahiti 3D* Educator's Guide)

At The Henry Ford, we are taking special steps to ensure that your field trip is educational and aligned with the Michigan grade-level and high school content expectations. Our education team is now bringing to you these Curriculum Connection Guides to augment the IMAX educational films. We hope that these inter-disciplinary curriculum connections are helpful for you, the teacher, in not only justifying the field trips, but also in converting these fun field trips into real learning experiences. Thank you for allowing us to be your "Partner in Education!"

Michigan Grade Level and High School Content Expectations

Science

Science Processes: Inquiry Process

- S.IP.03.11, S.IP.03.12, S.IP.04.11, S.IP.04.12, S.IP.05.11, S.IP.06.11, S.IP.07.11

Science Processes: Inquiry Analysis and Communication

- S.IA.03.12, S.RS.03.18, S.IA.04.12, S.IA.05.12, S.IA.06.12, S.IA.07.12

Science Processes: Reflection and Social Implications

- S.RS.03.18, S.RS.04.18, S.RS.05.17, S.RS.06.17, S.RS.07.17

Physical Science: Force and Motion

- Gravity- P.FM.03.22
- Speed- P.FM.03.41, P.FM.03.42, P.FM.03.43, P.FM.05.41, P.FM.05.42
- Force Interactions- P.FM.05.22
- Force- P.FM.05.33 P.FM.05.34

Physical Science: Energy

- Kinetic and Potential Energy- P.EN.06.11, P.EN.06.12
- Waves and Energy- P.EN.07.31, P.EN.07.32, P.EN.07.33
- Energy Transfer- P.EN.06.41, P.EN.06.42

Physical Science: Properties of Matter

- Elements and Compounds- P.PM.07.24

Earth Science: Solid Earth

- Surface Changes- E.SE.03.22
- Soil- E.SE.06.12
- Plate Tectonics- E.SE.06.51, E.SE.06.52, E.SE.06.53

Earth Science: Earth in Space and Time

- Patterns of Objects in the Sky- E.ST.04.25

Life Science: Ecosystems

- Interactions- L.EC.04.11
- Changed Environment Effects- L.EC.04.21
- Interactions of Organisms- L.EC.06.11
- Relationships of Organisms- L.EC.06.21 L.EC.06.22 L.EC.06.23
- Biotic and Abiotic Factors- L.EC.06.31 L.EC.06.32
- Environmental Impact of Organisms- L.EC.06.41 L.EC.06.42

Life Science: Evolution

- Species Adaptation and Survival- L.EV.05.14

Social Studies**History: The World in Temporal Terms:**

- Historical Habits of Mind: Historical Inquiry and Analysis- 6 – H1.2.1, 7 – H1.2.1

Geography: The World in Spatial Terms: Geographical Habits of Mind

- Geographical Understanding- 6 – G1.3.3

Geography: Places and Regions

- Physical Characteristics of Place- 6 – G2.1.2
- Physical Systems: Ecosystems- 6 – G3.2.2

Geography: Environment and Society

- Humans and the Environment- 6 – G5.1.1, 6 – G5.1.3

English Language Arts**Listening & Viewing: Conventions**

- L.CN.00.03, L.CN.01.03, L.CN.02.03, L.CN.03.02, L.CN.04.02, L.CN.05.02

Listening & Viewing: Response

- L.RP.00.03, L.RP.01.03, L.RP.02.03, L.RP.03.03, L.RP.04.03, L.RP.05.03, L.RP.06.05, L.RP.08.05