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Physical Science

Session 1 - 48

choose any 6 topics of your choice from the below mentioned topics

The Energy of Collision

- Introduction to Energy
- Energy, Force, and Motion
- Energy Transfer
- Energy and Collisions
- Types of Energy
- The Energy of Collison
- Law of Conservation of Energy
- **Progress check in scientific inquiry**

Energy Resources

- Energy on Earth
- Non-renewable Energy
- Renewable Energy
- Non-renewable vs. Renewable Energy Resources
- **Progress check in scientific inquiry**

Thermal Energy

- Thermal Energy and Heat
- Conduction
- Convection
- Radiation
- **Progress check in scientific inquiry**

Waves, Sound, Light

- Introduction to Waves
- Types of Waves
- Wave Properties
- Wave Signals
- Sound Energy
- What Causes Changes in the Wavelength of a Wave?
- How much Energy is in a Wave?
- Transferring data
- **Progress check in scientific inquiry**

Electricity

- Static Electricity
- Electric Circuits
- Using Electrical Energy
- **Progress check in scientific inquiry**
- **Science Mastery Checkpoint**

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Life Science

Session 1 - 48

choose any 6 topics of your choice from the below mentioned topics

Human Body

- External Human Body Parts
- Human Body Systems
- The Five Senses
- Sensory Information Processing
- The Science of Eyesight
- **Progress check in scientific inquiry**

Animals

- Animal Senses
- Biodiversity
- Adaptation
- **Progress check in scientific inquiry**

Nutrition

- Nutrients
- What is food used for?
- Metabolism
- Nutrition Imbalance
- **Progress check in scientific inquiry**
- **Science Mastery Checkpoint**

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Crosscutting Concepts

Session 1 - 48

choose any 6 topics of your choice from the below mentioned topics

Soil, Rocks, and Minerals

- Types of Soil
- Rocks
- Minerals
- Rocks vs. Minerals
- **Progress check in scientific inquiry**
- **Science Mastery Checkpoint**

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Earth and Space Science

Session 1 - 48

choose any 6 topics of your choice from the below mentioned topics

Mapping Earth

- Mapping Earth
- Topographic Maps
- Landforms and Bodies of Water
- Coastal Landforms
- **Progress check in scientific inquiry**

Slow and Rapid Changes to Earth

- Weathering
- Rate of Erosion
- Weathering, Erosion, and Deposition
- Slow and Rapid Change Evidence
- **Progress check in scientific inquiry**

Tectonic Plates

- Plate Tectonics
- Plate Boundary Landforms
- Volcanoes
- Earthquakes
- **Progress check in scientific inquiry**

Natural Resources

- Natural Resources-Renewable vs. Nonrenewable
- Human Impact on the Environment
- Pollution
- Global Warming
- **Progress check in scientific inquiry**
- **Science Mastery Checkpoint**

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Engineering, Technology, and Applications of Science

Session 1 - 48

choose any 6 topics of your choice from the below mentioned topics

Engineering Design

- The Engineering Process
- Defining Problems
- Brainstorming and Designing Solutions
- Developing and Using Models
- Types of Engineers
- **Progress check in scientific inquiry**
- **Science Mastery Checkpoint**