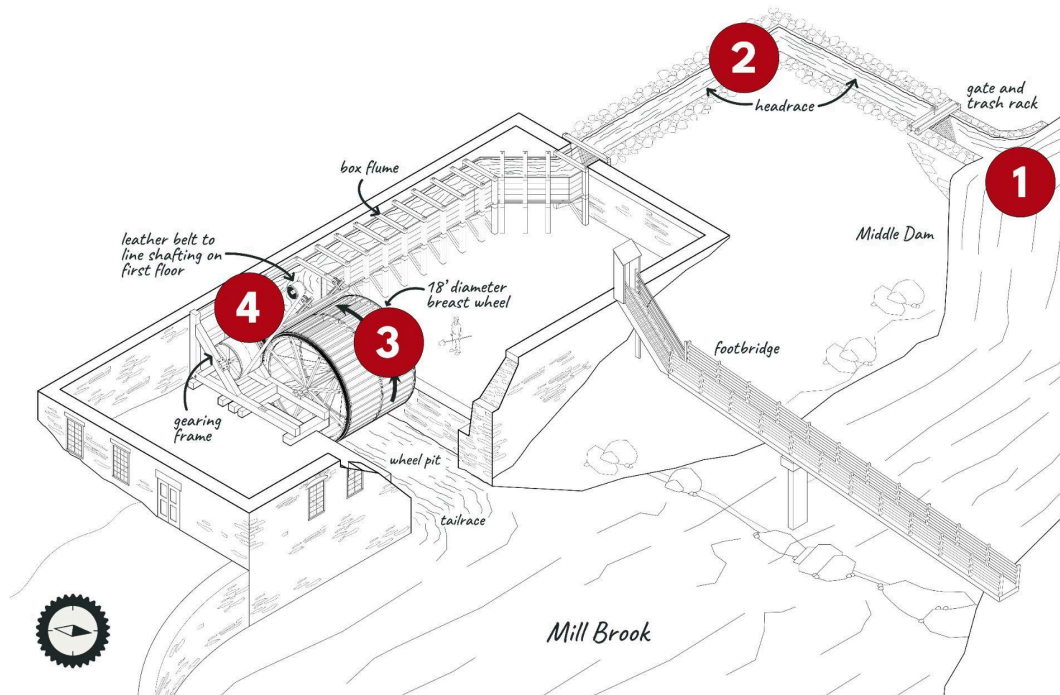


Follow the Energy: Teacher Edition

Energy Pathway Diagram Overview



1. Dam with Stored Water → Gravitational Potential Energy
2. Flowing Water in Flume → Kinetic Energy
3. Water turns the Wheel Rotational → Mechanical Energy
4. Gear System and Pulleys connected to machines → Mechanical Energy Transfer

Prompt Ideas to Drive Discussion

- “Where did the water's energy start?”
- “Did all the energy make it to the machine? Where did some of it go?”
- “How can you change the design to reduce energy loss?”

Seasonal and Environmental Impacts on relying on waterpower:

- Water freezing in winter
- Drought/low water levels reduce power and operating time
- Flooding. Factories must be built along rivers making them more susceptible to floods.