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Create a lesson plan for primary 4 children on Friction Include an introduction, lesson outline, questioning, assessment, differentiation and plenary. Include links to some video and worksheet resources.

Introduction:

Friction is a very important force in our everyday life. The force of friction gives us traction and helps us drive our cars, as well as helps us grip items. Today we will discuss what friction is and how it affects us, and give students a chance to see it in action and experiment with it.

Lesson Outline:

- Explain what friction is (5 minutes)
- Demonstrate frictional force on an object (5 minutes)
- Let students observe and test the effects of friction (15 minutes)
- Conduct a group experiment (10 minutes)
- Summarize the lesson (5 minutes)

Questioning:

- What is friction and what causes it?
- How does friction affect us?
- How can we control or reduce friction?
- What are some everyday examples of friction?

Assessment:

This lesson can be assessed through a written assessment in which students will be asked to explain what friction is and answer some of the questions asked during the lesson.

Differentiation:

- Students with learning disabilities can be given worksheets with simpler questions and more practical activities.

- Students with stronger abilities can be given more complicated questions and experiments to do.

Plenary:

At the end of the lesson, students can be given an opportunity to present their findings and results to the rest of the class.

Resources:

- Video: https://www.youtube.com/watch?v=eStsSC_jQu8
- Worksheet: <https://www.twinkl.co.uk/resource/t2-s-231-friction-worksheet>