

Year 5 Home Learning for Week Commencing 17th January 2022

Science

LO: To learn how gears and pulleys affect the amount of force needed.

Think back to last lesson- what is the scientific name for an object which allows you to exert more force?

In this lesson we will be taking part in a carousel of activities to investigate two simple machines- pulleys and gears. Can you locate any gears or pulley systems in your home? What are they used for?

Task A: Watch the two BBC class clips about pulleys and gears. Then complete the lever, gear or pulley activity sheet. **Challenge:** Explain what are the upsides and downsides of using gears and pulley systems.

Task B: Create a pulley system to help lift a heavy weight. Use the 'make a pulley' instructions to build your own pulley, or design and label a pulley system that you think would be most effective at lifting a heavy weight.

Task C: Use the 'making moving gears' resources to make a set of gears, and answer the questions given or research and explain how a bicycle's gears allow the rider to use force more effectively. **Optional challenge-** use a real world example in your explanation.

Plenary: Explain which mechanism (lever, pulley or gears) would be most suited for different jobs. Give reasons for your opinion!

Topic

LO: To examine how propaganda was used in WW1.

Propaganda is a type of persuasive advertising used by governments to influence people to behave in a certain way. Read through the lesson presentation and answer the questions to learn about propaganda.

Learning activity: Carefully examine the propaganda posters resource, which contains posters designed to try to get men to join the army. Each one uses emotions to try to persuade the audience. Identify which emotion it is trying to use, then rank the posters by how effective you thought they were. Can you explain your reasons why you think so?

Challenge: Do you think it is morally right for governments to use propaganda on their citizens? Are there any situations where it may or may not be ethical?



RRSA

Article of the Week: Goals in Education

This week we are looking at Article 29.

Use the PowerPoint to find out information about the importance of education developing every child's personality, talents and abilities to the full.

Complete your chosen primary activities (slides 7 & 8)

Religious Education

World Religion Day (16th January)

What does this mean to you?

Read through the comprehension texts (differentiated on web page). Highlight key information.

Use the links below (for more information) to create a poster based on different religions around the world.

[KS2 Religious Studies - BBC Teach](#)

[WORLD RELIGION DAY - January 16, 2022 - National Today](#)

PE

Complete a Joe Wicks' 30 minute workout.



Bonus activity

Complete your next task on Espresso Coding.

