

# The Body Project



# Choose Your Project...



- Red: Do you get hungrier after exercising?
- Orange: Why do some marathon runners train at high altitudes? Link this to our lessons on pulse rates.
- Green: Why is the brain the most important organ in the body?
- White: How do our stomach and intestines work together to digest food?
- Blue: Why do we need oxygen? What does the body do with it?
- Dots: How do our kidneys and liver work together to stay alive?

# To do when not in school



- ❧ You will have 3 lessons to discover as much as possible and answer your project's question.
- ❧ The plan is to choose one per week for the next 3 weeks.

# Red



Do you get hungrier after exercising?

- ❧ Google the question above – see what it says
- ❧ Look at the organs of the digestive system
- ❧ How fast does the stomach and the intestine work?
- ❧ How quickly does your stomach get hungry at rest?
- ❧ How quickly does it get hungry when working?
- ❧ What about whilst sleeping?

# Orange



Why do some marathon runners train at high altitudes?

- ❧ Look at the link between exercising and pulse rate.
- ❧ Look at the link between the speed that the lungs and heart need oxygen whilst exercising, and when at rest.
- ❧ Look at “red blood cells” and oxygen.
- ❧ Google the question title.
- ❧ Present your findings and answer the question.

# Green



Why is the brain the most important organ in the body?

- ❧ Google the question above, see what you find.
- ❧ What does the brain do, look at all of its jobs.
- ❧ What disorders are there of the brain? There are major ones (Alzheimer's) and minor ones (such as dyslexia).
- ❧ What happens to your brain if your heart stops, and doesn't restart after 4 minutes?
- ❧ Why is brain surgery carry a lot of risk?

# White



How do our stomach and intestines work together to digest food?

- ❧ Google the title and see what you find out.
- ❧ What does the stomach do? What do the intestines do?
- ❧ What happens to food once swallowed? Document its journey.
- ❧ What happens to food in the intestines?
- ❧ What happens to “waste” food/faeces?

# Blue



Why do we need oxygen? What does the body do with it?

- ❧ Google ALL the ways the body uses oxygen.
- ❧ Look up what the cells of our bodies do with oxygen.
- ❧ What happens if we don't have enough oxygen?  
Don't just think of your lungs – what about cells?
- ❧ Why do our muscles get tired after exercising?



# Dots



How do our kidneys and liver work together to stay alive?

- ❧ Google what the kidneys and liver do.
- ❧ What happens if either organ does not work?
- ❧ Why can the liver regrow itself?
- ❧ What is dialysis and why is it sometimes needed?
- ❧ Why can your body survive with one kidney?
- ❧ Is there such a thing as “unclean blood”?