

LEARNING INTENTION;

Human population & Global Food production

Success Criteria..

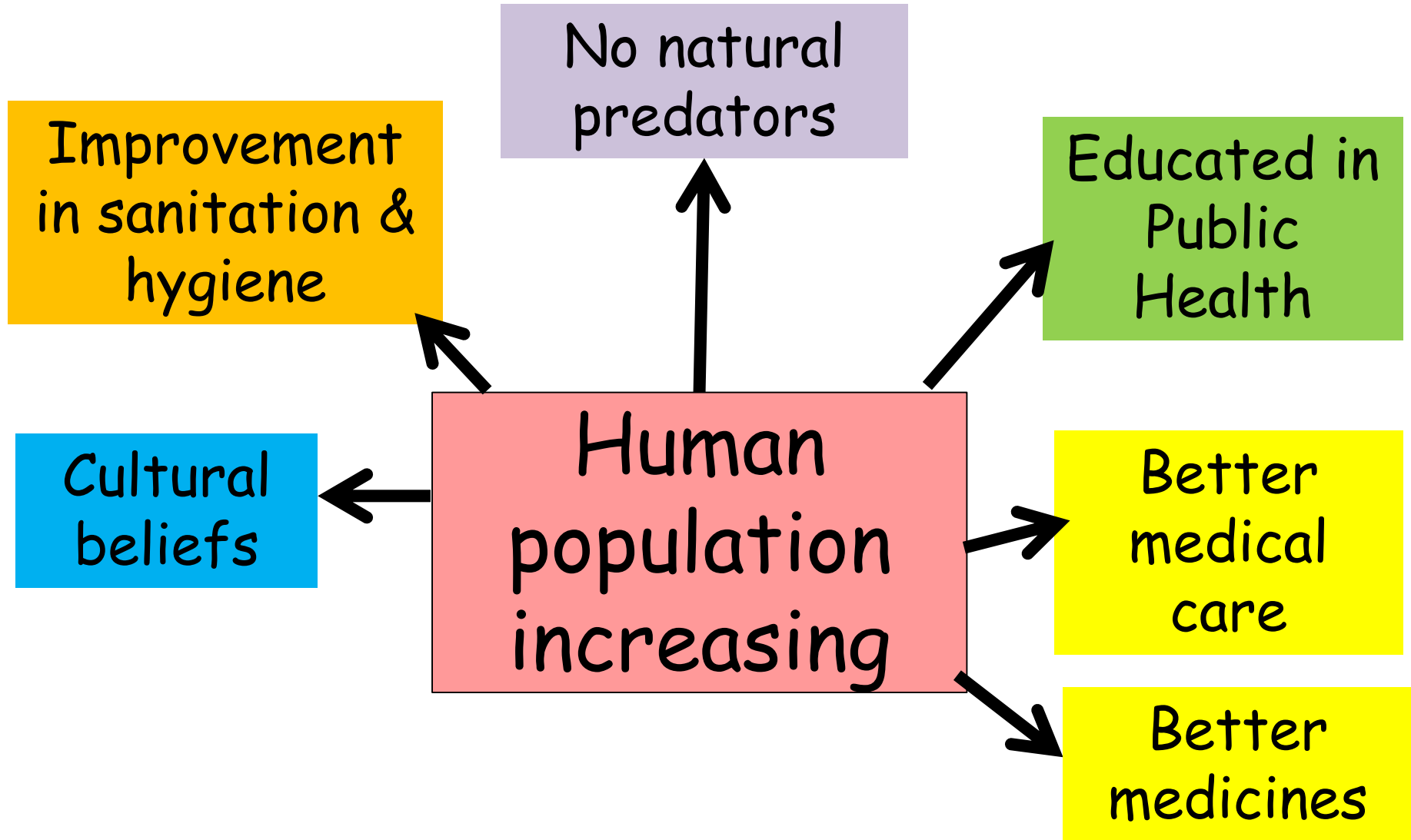
I can;

- ❖ Give reasons why the human population is increasing
- ❖ State that farmers to meet demands of increasing global human population use various farming methods to increase crop yield

STARTER QUESTION

Can you think of 3 reasons WHY the Human Population is Exploding?

The Human Population is Exploding because of....



Where does your food come from?



ANIMALS



PLANTS

Where is your food produced?

Your food is produced on FARMS



Food Production



➤ **CULTIVATING** plants

Agriculture is
the process of
producing food
by:



➤ **raising**
domesticated
animals

Increasing Human population

World Population
TODAY is ??????



<http://www.worldometers.info/world-population/#pastfuture>

How do we feed an ever growing population?

➤ to prevent many people in the world going hungry

➤ **FARMERS** need to increase food production



Grow more crops



Raise more domesticated animals

Intensive farming methods

Increase food production;

Keeping animals indoors (battery farming)



Use of chemical fertilisers & pesticides



Intensive farming method;



Battery Farming



Keeping lots of animals indoors :

➤ Less exercise means become bigger





Battery Farming



Increased risk of **disease** from cramped conditions

Animals become **stressed** & **overheat** as they have less space



Cannot carry out **natural behaviours**



Farmers use **chemicals** to increase
CROP YIELDS





PESTicides



REDUCES LEAF DAMAGE from
insect pests



INCREASE CROP YIELD



Problems with Pesticides



1. **TOXIC** to humans
2. **TOXIC** to other **beneficial** insects
3. **Pest** species may become **RESISTANT**





**SPRAY CHEMICAL FERTILISERS
ONTO THE LAND**



INCREASE CROP YIELD



Problems with fertilisers



- kill underwater plants
- Animals and fish also die

Pollute rivers and lakes/lochs

Use of chemicals in agriculture

Pesticides



Fertilisers



Cause POLLUTION & REDUCE
BIODIVERSITY

Alternative methods

Organic farming

Free range hens

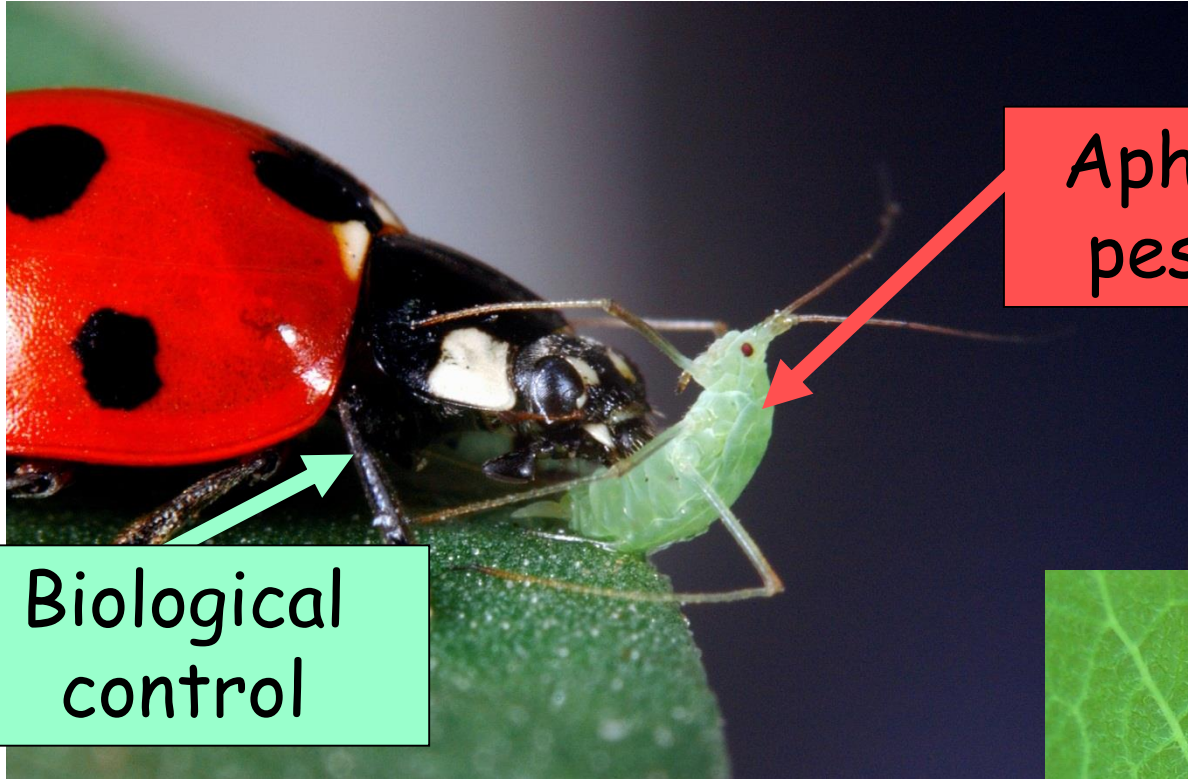


Growing clover/crop rotation



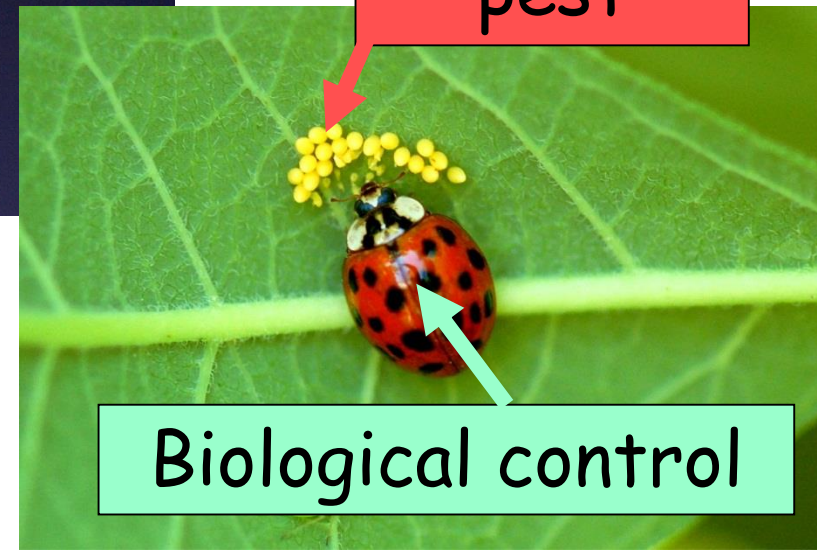
Bans using chemicals on the land and has a less harmful effect on the environment but often produces less, more expensive food.

Biological Control (Use of Natural predators)



Aphid
pest

Biological
control

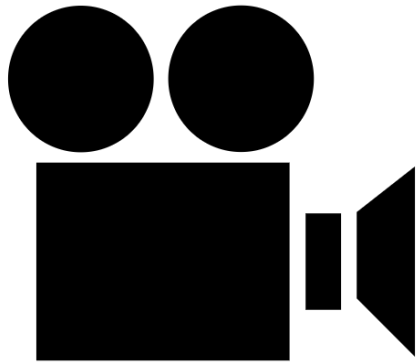


Scale
insect
pest

Biological control

Ladybirds are natural
predators of aphids and
scale insects

Watch the video on the link
attached to Satchel:One



Intensive
Farming in
Brazil.